Service
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Service Manual

Horizontal Frequency

30-80 kHz

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SAFETY NOTICE

ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFOMER FOR THIS UNIT WHEN SERVICING

Important Safety Notice

Proper service and repair is important to the safe, reliable operation of all AOC Company Equipment. The service procedures recommended by AOC and described in this service manual are effective methods of performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.

It is important to note that this manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It is also important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. AOC could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, AOC has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by AOC must first satisfy himself thoroughly that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.
Hereafter throughout this manual, AOC Company will be referred to as AOC.

WARNING
Use of substitute replacement parts, which do not have the same, specified safety characteristics might create shock, fire, or other hazards.

Under no circumstances should the original design be modified or altered without written permission from AOC.
AOC assumes no liability, express or implied, arising out of any unauthorized modification of design.
Servicer assumes all liability.

FOR PRODUCTS CONTAINING LASER:
DANGER-Invisible laser radiations when open AVOID DIRECT EXPOSURE TO BEAM.
CAUTION-Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
CAUTION -The use of optical instruments with this product will increase eye hazard.

TO ENSURE THE CONTINUED RELIABILITY OF THIS PRODUCT, USE ONLY ORIGINAL MANUFACTURER'S REPLACEMENT PARTS, WHICH ARE LISTED WITH THEIR PART NUMBERS IN THE PARTS LIST SECTION OF THIS SERVICE MANUAL.
Take care during handling the LCD module with backlight unit
-Must mount the module using mounting holes arranged in four corners.
-Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
-Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
-Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
-Make certain that treatment person’s body is grounded through wristband.
-Do not leave the module in high temperature and in areas of high humidity for a long time.
-Avoid contact with water as it may a short circuit within the module.
-If the surface of panel becomes dirty, please wipe it off with a soft material. (Cleaning with a dirty or rough cloth may damage the panel.)

Revision List

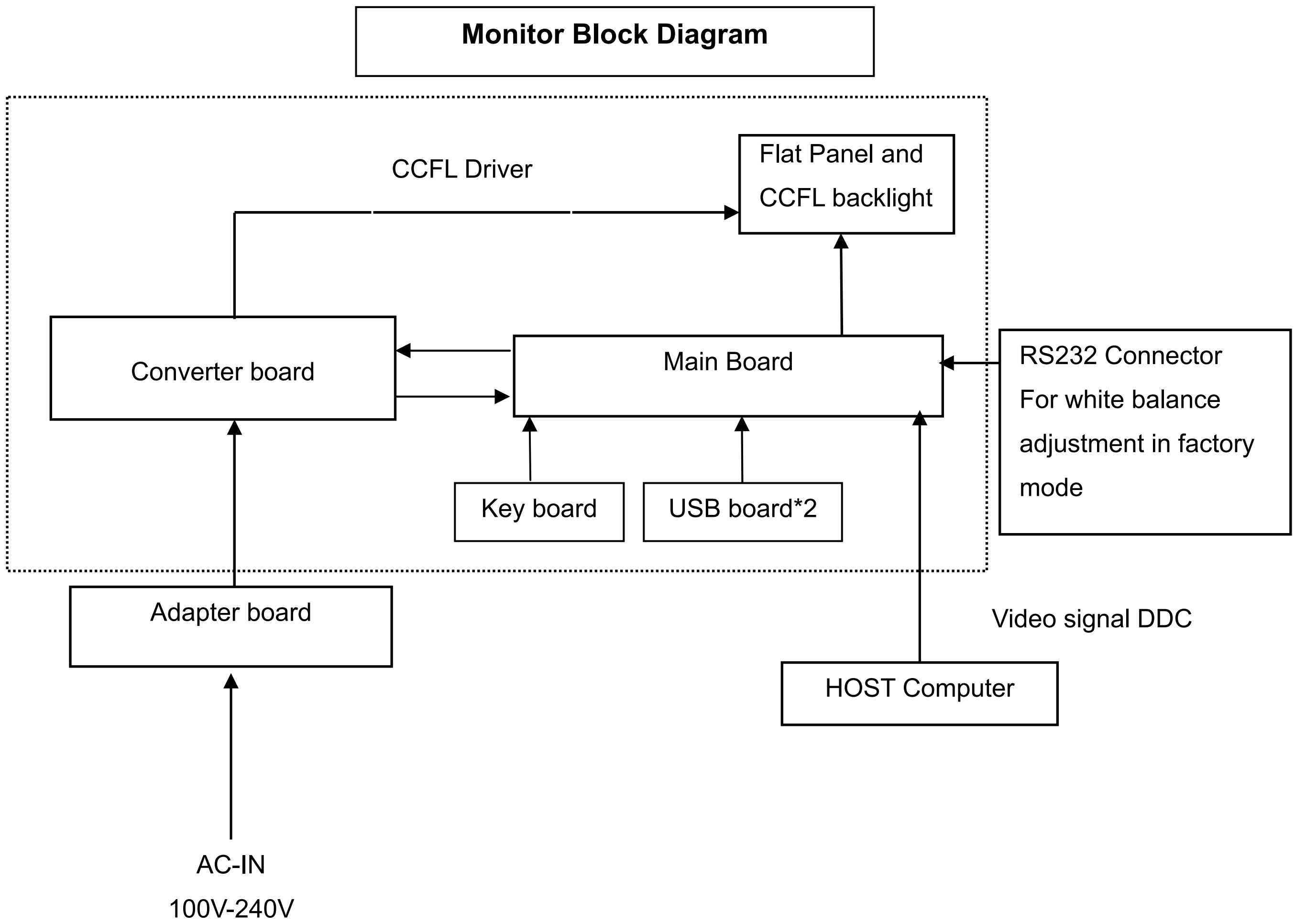
Version	Date	Revision History	Remark
A00	Jan.-19-2010	Initial release (TPV TPM185B1-L01 AUO M185XW01 715G3823P01000004S 715G3649P01000004S)	T89AM5NB6WA5UNE
			T89AM5NB6WA5UGE
			T89AM5NL6WA2UNE
			T892M5NB6WA1UNE
			T892M5NC6WA1UNE
A01	Jun.-04-2010	Add new Models	T89AM5NQ6WA1UNE
			T89AM5NC6WA2UNE
			T89AM5NB6WA5U6E
			T89AM5NK6WA1U6E
			T89AM5NL6WA2UNE
		Add second Panel （TPV TPM185B1-XW01）	T894M5NB6WA4UNE
A02	Aug.-26-2010	Add new Models	T892M5NL6WA1UNE
			T8A2M5NE6WA1UNE
A03	Sep.-17-2010	Add new Models	T892M5NK6WA1UNE
			T892M5NQ6WA1UNE
			T89AM5NK6WA1UNE
			T89AM5NQ6WA1U6E
			T89AM5NQ6WA36NE
			T89AM5NQ6WA46NE
			T8AAM5NE6WA1UNE

1. Monitor Specification

LCD Panel	Model name	e936Swa	
	Driving system	TFT Color LCD	
	Viewable Image Size	47.0cm diagonal	
	Pixel pitch	0.3mm(H) x 0.3mm(V)	
	Video	R, G, B Analog Interface	
	Separate Sync.	H/V TTL	
	Display Color	16.7M Colors	
	Dot Clock	85.5MHz	
Resolution	Horizontal scan range	30 kHz - 80 kHz	
	Horizontal scan Size(Maximum)	409.8mm	
	Vertical scan range	55 Hz - 75 Hz	
	Vertical scan Size(Maximum)	230.4mm	
	Optimal preset resolution	1366x768 (60 Hz)	
	Highest preset resolution	1366x768 (60 Hz)	
	Plug & Play	VESA DDC2B/CI	
	Input Connector	D-Sub 15pin	
	Input Video Signal	Analog: 0.7Vp-p(standard), 75 OHM	
	Power Source	100-240V~, 50/60Hz	
	Power Consumption	Typical < 25W	
		Standby < 1 W	
	USB Downstream port (A type)	To USB device, loading < 100mA	
	off timer	0~24hours	Select timing to turn off the monitor.
	Speakers	1.5W x 2	
Physical Characteristics	Connector Type	15-pin Mini D-Sub	
	Signal Cable Type	Detachable	
	Dimensions & Weight:	Height (with base)	358.66mm
		Width	463.14mm
		Depth	186mm
		Weight (monitor only)	3.25 kg
		Weight (with packaging)	4.85 kg
Environmental	Temperature:	Operating	0° to 40°
		Non-Operating	-20°to 60°
	Humidity:	Operating	10% to 85% (non-condensing)
		Non-Operating	5% to 80% (non-condensing)
	Altitude:	Operating	0~ 3000m (0~ 10000 ft)
		Non-Operating	0~ 5000m (0~ 15000 ft)

2. LCD Monitor Description

The LCD monitor will contain a main board, an adapter board, a converter board, two USB boards, an audio board and a key board which house the flat panel control logic, brightness control logic and DDC.
The power part will provide AC to DC Inverter voltage to drive the backlight of panel and the main board chips each voltage.



3. Operating Instructions

3.1 General Instructions

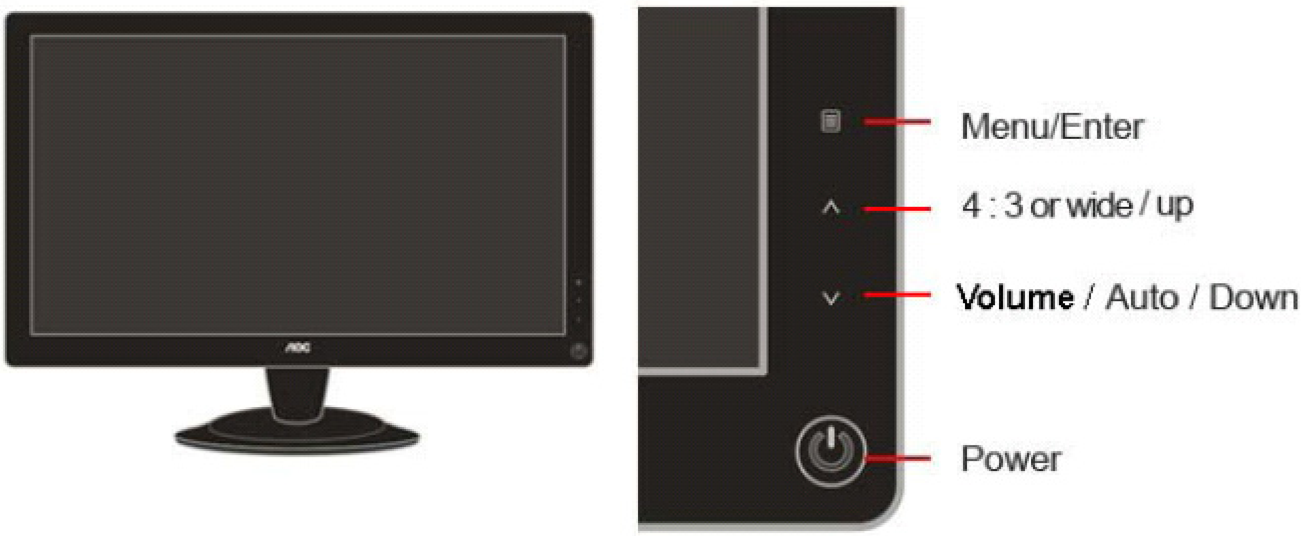
Press the power button to turn the monitor on or off. The other control buttons are located on the side of the monitor. By changing these settings, the picture can be adjusted to your personal perference.

• The power cord should be connected.

• Connect the video cable from the monitor to the video card.

• Press the power button to turn on the monitor position. The power indicator will light up.

3.2 Control Buttons



Power

Press to turn on or turn off the monitor.

Menu / Enter

Press to activate OSD, then press Up or Down to navigate through the functions.

4:3 or wide / Up

Press ∧ key to change the screen aspect ratio between standard 4：3format or Wide format. When the input resolution is wide format, the aspect ratio hotkey is disabled. When the main menu or sub-menu is active, the ∧ key functions as to select up or increase value.

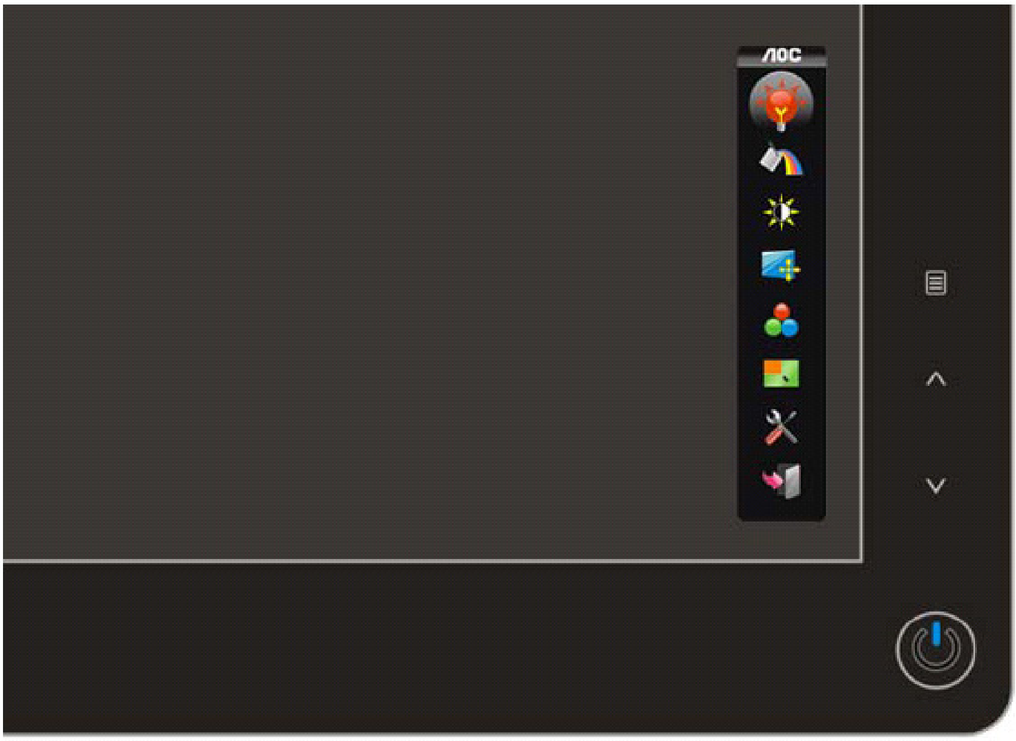
Volume(Auto) / Down

When there is no OSD, press the key to activate Volume and auto function, then press Up or Down to select Volume or Auto configure function.

3.3 Adjusting the Picture

OSD Settings

Basic and simple instruction on the control keys.



When you press the MENU button on the front control of your monitor, the On DOWN Screen Display (OSD) Main Controls window will pop up and you can then start making adjustments to your monitor's various features. Use the **UP** or **DOWN** keys to make your adjustments. Follow the steps below to activate the adjustment.

1) Press the **MENU** key to activate the OSD window.

2) Press **UP** or **DOWN** to navigate through the functions. Once the desired function is highlighted, press the MENU key to activate it. If the function selected has a sub-menu, press **UP** or **DOWN** again to navigate through the sub-menu functions. Once the desired function is highlighted, press **MENU** key to activate it.

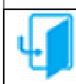
3) Press **UP** or **DOWN** to change the settings of the selected function. Press **MENU** key to exit and save, select the exit function. If you want to adjust any other function, repeat steps 2-3.

4) OSD Lock Function: To lock the OSD, press and hold the **MENU** key while the monitor is off and then press power button to turn the monitor on. To unlock the OSD, press and hold the **MENU** key while the monitor is off and then press power button to turn the monitor on.

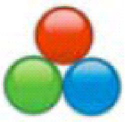
Function Control Illustration

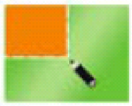
	Item	Icon	Function	Adjust Range	Description
	Eco mode		DCR	Select to active	Dynamic contrast ratio
			Standard	Select to active	Standard Mode
			Text	Select to active	Text Mode
			Internet	Select to active	Internet Mode
			Game	Select to active	Game Mode
			Movie	Select to active	Movie Mode
			Sports	Select to active	Sports Mode

	Item	Icon	Function	Adjust Range	Description
	Color Boost		Full Enhance	on or off	Disable or Enable Full Enhance Mode
			Nature Skin	on or off	Disable or Enable Nature Skin Mode
			Sky-blue	on or off	Disable or Enable Sky-blue Mode
			Green Field	on or off	Disable or Enable Green Field Mode
		AUTO	Auto Detect	on or off	Disable or Enable AutoDetect Mode
			Demo	on or off	Disable or Enable Demo
		OFF	Off		Disable Color Boost
			Exit		Exit to main menu

	Item	Icon	Function	Adjust Range	Description
	Luminance		Brightness	00-100	
			Contrast	00-100	
			Gamma	Gamma1, 2, 3	Adjust to Gamma1, Gamma2, Gamma3
			Exit		Exit to main menu

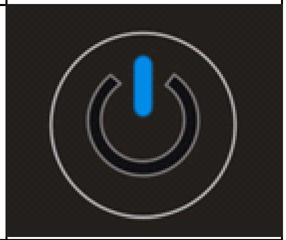
	Item	Icon	Function	Adjust Range	Description
	Image Setup		Clock	00-100	Adjust picture Clock to reduce Vertical-Line noise.
			Phase	00-100	Adjust Picture Phase to reduce Horizontal-Line noise
			H.Position	00-100	Adjust the vertical position of the picture.
			V.Position	00-100	Adjust the horizontal position of the picture.
			Exit		Exit to main menu

	Item	Icon	Function	Adjust Range	Description
	Color Temperature	R	User Red	00-100	Red Gain from Digital-register
		G	User Green	00-100	Green Gain Digital-register.
		B	User Blue	00-100	Blue Gain from Digital-register
			Normal	7300K	Recall Normal Color Temperature from EEPROM.
			Warm	6500K	Recall Warm Color Temperature from EEPROM.
			Cool	9300K	Recall Cool Color Temperature from EEPROM.
		sRGB	sRGB		Recall SRGB Color Temperature from EEPROM.
			Exit		Exit to main menu

	Item	Icon	Function	Adjust Range	Description
	Picture Boost		Horizontal Position	00-100	Adjust Frame horizontal Position
			Vertical Position	00-100	Adjust Frame vertical Position
			Contrast	00-100	Adjust Frame Contrast
			Brightness	00-100	Adjust Frame Brightness
			Frame Size	14-100	Adjust Frame Size
			Bright Frame	on or off	Disable or Enable Bright Frame
			Exit		Exit to main menu

	Item	Icon	Function	Adjust Range	Description
	Extra Setting		Language		Select the OSD language
			Reset	yes or no	Reset the menu to default
		DDC/CI	DDC-CI	yes or no	Turn ON/OFF DDC-CI Support
			Timeout	05-120	Adjust the OSD Timeout
			Transparence	00-100	Adjust the transparence of OSD
			H. Position	00-100	Adjust the vertical position of OSD
			V. Position	00-100	Adjust the horizontal position of OSD
			Off Timer	00-24	Adjust the DC off time
			Exit		Exit to main menu

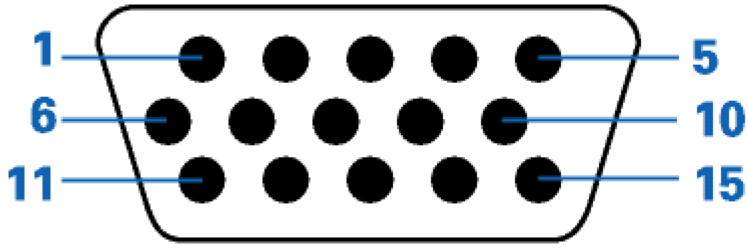
LED Indicator

Status	LED Color	
Full Power Mode	Blue	
Active-off Mode	Orange	

4. Input/Output Specification

4.1 Input Signal Connector

D-SUB connector



Pin Number	15-Pin Side of the Signal Cable
1	Video-Red
2	Video-Green
3	Video-Blue
4	N.C.
5	Detect Cable
6	GND-R
7	GND-G
8	GND-B
9	+5V
10	Ground
11	N.C.
12	DDC-Serial data
13	H-sync
14	V-sync
15	DDC-Serial clock

4.2 Factory Preset Display Modes

STAND	RESOLUTION	HORIZONTAL FREQUENCY(kHZ)	VERTICAL FREQUENCY(Hz)
VGA	640×480 @60Hz DMT	31.469	59.940
VGA	640×480 @67Hz MAC	35.000	66.667
VGA	640×480 @72Hz DMT	37.861	72.809
VGA	640×480 @75Hz DMT	37.500	75.000
Dos-mode	720×400 @70Hz DOS	31.469	70.087
SVGA	800×600 @56Hz DMT	35.156	56.250
SVGA	800×600 @60Hz DMT	37.879	60.317
SVGA	800×600 @72Hz DMT	48.077	72.188
SVGA	800×600 @75Hz DMT	46.875	75.000
SVGA	832×624 @75Hz	49.725	74.550
XGA	1024×768 @60Hz DMT	48.363	60.004
XGA	1024×768 @70Hz DMT	56.476	70.069
XGA	1024×768 @75Hz DMT	60.023	75.029
WXGA	1366x768 @60Hz DMT	47.765	59.85

5 Panel Specification

5.1 Display Characteristics

AUO M185XW01

This specification applies to the 18.5 inch-wide Color a-Si TFT-LCD Module M185XW01.The display supports the WXGA - 1366(H) x 768(V) screen format and 16.7M colors (RGB 6-bits + Hi-FRC data). All input signals are 1-channel LVDS interface and this module doesn't contain an inverter board for backlight.

ITEMS	Unit	SPECIFICATIONS
Screen Diagonal	[mm]	470.1(18.51")
Active Area	[mm]	409.8 (H) x 230.4 (V)
Pixels H x V		1366(x3) x 768
Pixel Pitch	[um]	300 (per one triad) × 300
Pixel Arrangement		R.G.B. Vertical Stripe
Display Mode		TN Mode, Normally White
White Luminance (Center)	[cd/m^2]	250 cd/m^2 (Typ.)
Contrast Ratio		1000 (Typ.)
Optical Response Time	[msec]	5ms (Typ., on/off)
Nominal Input Voltage VDD	[Volt]	+5.0 V (Typ)
Power Consumption (VDD line + LED line)	[Watt]	10W (Typ.) (without inverter, all black pattern)
Weight	[Grams]	1330±50g
Physical Size	[mm]	430.4 (W) x 254.6 (H) Typ. x 9.9 (D) Typ
``		One channel LVDS
Support Color		16.7M colors (RGB 6-bit + Hi_FRC)
Surface Treatment		Anti-Glare, 3H
Temperature Range Operating Storage (Shipping)	 [°C] [°C]	 0 to +50 -20 to +60
RoHS Compliance		RoHS Compliance

TPV TPM185B1-L01

The TPM185B1L01 Rev:C1D model is a 18.5 inch wide TFT-LCD module with LED Backlight Unit and 30-pin 1ch-LVDS interface. This module supports 1366 x 768 WXGA (16:9 wide screen) mode and displays up to 16.7 millions colors. The converter module for the Backlight Unit is not built in.

Item	Specification	Unit
Active Area	409.8 (H) × 230.4(V) (18.5" diagonal)	mm
Bezel Opening Area	413.4 (H) x 234 (V)	mm
Driver Element	a-si TFT active matrix	-
Pixel Number	1366 x R.G.B. x 768	pixel
Pixel Pitch	0.24825 (H) x 0.24825 (V)	mm
Pixel Arrangement	RGB vertical stripe	-
Display Colors	16.7M	color
Transmissive Mode	Normally White	-
Surface Treatment	AG type, 3H hard coating, Haze 25%	-
Module Power Consumption	12.3	Watt

Item		Min.	Typ.	Max.	Unit
Module Size	Horizontal(H)	429.87	430.37	430.87	mm
	Vertical(V)	254.1	254.6	255.1	mm
	Depth(D)	-	11.0	11.5	mm
Weight		-	1530	1580	g

TPV TPM185B1-XW01

This specification applies to the 18.5 inch-wide Color a-Si TFT-LCD Module M185XW01.The display supports the WXGA - 1366(H) x 768(V) screen format and 16.7M colors (RGB 6-bits +Hi-FRC data). All input signals are 1-channel LVDS interface and this module doesn't contain an inverter board for backlight.

Ta=25℃

ITEMS	Unit	SPECIFICATIONS
Screen Diagonal	[mm]	470.1(18.51")
Active Area	[mm]	409.8 (H) x 230.4 (V)
Pixels H x V		1366(x3) x 768
Pixel Pitch	[um]	300 (per one triad) × 300
Pixel Arrangement		R.G.B. Vertical Stripe
Display Mode		TN Mode, Normally White
White Luminance (Center)	[cd/m2]	250cd/m2(Typ.)
Contrast Ratio		1000(Typ.)
Optical Response Time	[msec]	5ms (Typ., on/off)
Nominal Input Voltage VDD	[Volt]	5.0V(Typ.)
Power Consumption (VDD line + LED line)	[Watt]	10W (Typ.) (without inverter, all black pattern)
Weight	[Grams]	1580 (Max)
Physical Size	[mm]	430.4 (W) x 254.6 (H) Typ. x 11.1 (D) Max
Electrical Interface		One channel LVDS
Support Color		16.7M colors (RGB 6-bit + Hi_FRC)
Surface Treatment		Anti-Glare, 3H
Temperature Range Operating Storage (Shipping)	 ℃ ℃	 0 to +50 -20 to +60
RoHS Compliance		RoHS Compliance

5.2 Optical Characteristics

AUO M185XW01

Ta=25℃

Item	Unit	Conditions	Min.	Typ.	Max.
Viewing Angle	[degree]	Horizontal (Right) CR = 10 (Left)	150	170	- -
		Vertical (Up) CR = 10 (Down)	140	160	- -
Contrast ratio		Normal Direction	600	1000	-
Response Time	[msec]	Raising Time (T_{rR})	-	3.6	5.7
		Falling Time (T_{rF})	-	1.4	2.3
		Raising + Falling	-	5	8
Color / Chromaticity Coordinates (CIE)		Red x	0.603	0.633	0.663
		Red y	0.316	0.346	0.376
		Green x	0.294	0.324	0.354
		Green y	0.582	0.612	0.642
		Blue x	0.118	0.148	0.178
		Blue y	0.036	0.066	0.096
Color Coordinates (CIE) White		White x	0.283	0.313	0.343
		White y	0.299	0.329	0.359
Central Luminance	[cd/m^2]		200	250	-
Luminance Uniformity	[%]		65	70	-
Crosstalk (in 60Hz)	[%]				1.5
Flicker	dB				-20

Ta=25℃

Item		Symbol	Condition	Min.	Typ.	Max.	Unit
Color Chromaticity (CIE 1931)	Red	Rx	θ_x=0°, θ_Y =0° CS-1000T R=G=B=255 Grayscale	Typ – 0.03	0.636	Typ + 0.03	
		Ry			0.347		
	Green	Gx			0.323		
		Gy			0.609		
	Blue	Bx			0.152		
		By			0.062		
	White	Wx			0.313		
		Wy			0.329		
Center Luminance of White (Center of Screen)		L_C		200	250	---	cd/m^2
Contrast Ratio		CR		700	1000	---	-
Response Time		T_R	θ_x=0°, θ_Y =0°	---	1.3	2.2	ms
		T_F		---	3.7	5.8	ms
White Variation		δW	θ_x=0°, θ_Y =0° USB2000	---	---	1.43	-
Viewing Angle	Horizontal	θ_x+	CR > 10 USB2000	75	85	---	Deg.
		θ_x-		75	85	---	
	Vertical	θ_Y+		70	80	---	
		θ_Y-		70	80	---	
Viewing Angle	Horizontal	θ_x+	CR ≧ 5 USB2000	80	89	---	Deg.
		θ_x-		80	89	---	
	Vertical	θ_Y+		75	85	---	
		θ_Y-		75	85	---	

Ta=25℃

Item	Unit	Conditions	Min.	Typ.	Max.
Viewing Angle	[degree]	Horizontal (Right)	150	170	-
		CR = 10 (Left)			-
		Vertical (Up)	140	160	-
		CR = 10 (Down)			-
Contrast ratio		Normal Direction	600	1000	-
Response Time	[msec]	Raising Time (T_{rR})	-	3.6	5.7
		Falling Time (T_{rF})	-	1.4	2.3
		Raising + Falling	-	5	8
Color / Chromaticity Coordinates (CIE)		Red x	0.603	0.633	0.663
		Red y	0.316	0.346	0.376
		Green x	0.294	0.324	0.354
		Green y	0.582	0.612	0.642
		Blue x	0.118	0.148	0.178
		Blue y	0.036	0.066	0.096
Color Coordinates (CIE) White		White x	0.283	0.313	0.343
		White y	0.299	0.329	0.359
Central Luminance	[cd/m^2]		200	250	-
Luminance Uniformity	[%]		70	75	-
Crosstalk (in 60Hz)	[%]				1.5
Flicker	dB				-20

5.3 Electrical Characteristics

1.TFT LCD Module:

AUO M185XW01

Symbol	Parameter	Min	Typ	Max	Unit	Conditions
VDD	Logic/LCD Drive Voltage	4.5	5.0	5.5	[Volt]	+/-10%
IDD	Input Current	-	0.84	1	[A]	VDD= 5.0V, All Black Pattern At 60Hz,
PDD	VDD Power	-	4.2	5	[Watt]	VDD= 5.0V, All Black Pattern At 60Hz
IRush	Inrush Current	-	-	3	[A]	
VDDrp	Allowable Logic/LCD Drive Ripple Voltage	-	-	350	[mV] p-p	VDD= 5.0V, All Black Pattern At 60Hz

Symbol	Parameter	Min	Typ	Max	Units	Condition
VTH	Differential Input High Threshold	-	+50	+100	[mV]	VICM = 1.2V
VTL	Differential Input Low Threshold	-100	-50	-	[mV]	VICM = 1.2V
| VID |	Input Differential Voltage	100	400	600	[mV]	
VICM	Differential Input Common Mode Voltage	+1.0	+1.2	+1.4	[V]	VTH-VTL = 200MV (max)

TPV TPM185B1-L01

Vcc = 5.0 V, Ta = 25 ± 2 ºC, fv = 60 Hz

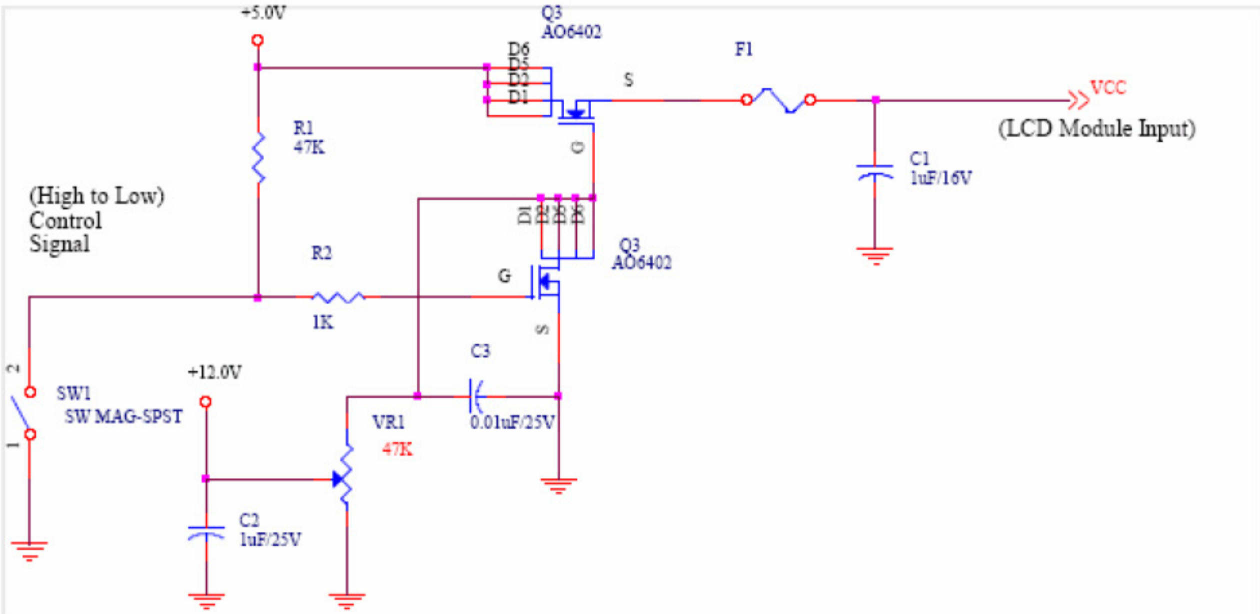
Parameter		Symbol	Value			Unit
			Min.	Typ.	Max.	
Power Supply Voltage		Vcc	4.5	5	5.5	V
Ripple Voltage		V_{RP}	-	--	100	mA
Power on Rush Current		I_{RUSH}	-	--	3	V
Power Supply Current	White	Lcc	-	0.44	0.6	mA
	Black		-	0.59	0.9	V
	Vertical Stripe		-	0.61	0.9	mA
Power consumption		Plcd	-	3.05	4.5	TBD
LVDS differential input voltage		Vid	100	-	600	mA
LVDS common input voltage		Vic	-	1.2	-	V
Logic High input voltage		VIH	2.0	-	2.7	V
Logic Low input voltage		VIL	-	-	0.5	V

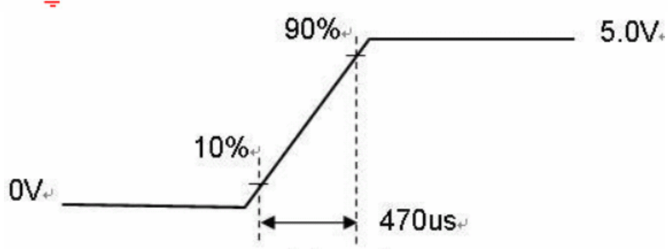
TPV TPM185B1-XW01

Symbol	Parameter	Min	Typ	Max	Unit	Conditions
VDD	Logic/LCD Drive Voltage	4.5	5	5.5	[Volt]	+/-10%
IDD	Inrush Current	-	0.76	0.85	[A]	VDD= 5.0V, All Black Pattern At 60Hz
PDD	VDD Power	-	3.8	4.25	[Watt]	VDD= 5.0V, All Black Pattern At 60Hz
IRush	Input Current	-	-	3	[A]	Note 1
VDDrp	Allowable Logic/LCD Drive Ripple Voltage	-	-	350	[mV] p-p	VDD= 5.0V, All Black Pattern At 60Hz

Note 1:Measurement conditions:

The duration of rising time of power input is 470us.

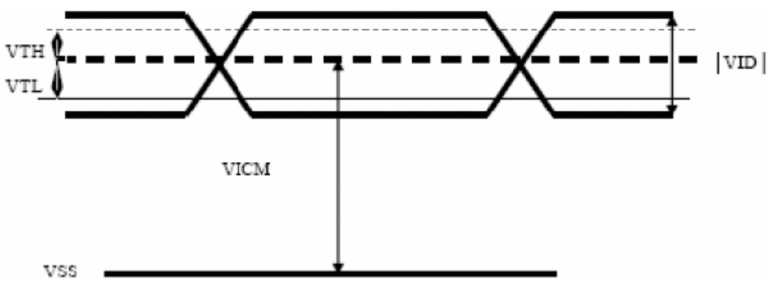




VDD rising time

Symbol	Parameter	Min	Typ	Max	Unit	Conditions
VTH	Differential Input High Threshold	-	50	100	[mV]	VICM = 1.2V Note 1
VTL	Differential Input Low Threshold	-100	-50	0.85	[mV]	VICM = 1.2V Note 1
|VID|	Input Differential Voltage	100	400	600	[mV]	Note 1
VICM	Differential Input Common Mode Voltage	1	1.2	1.4	[V]	VTH-VTL = 200mV max) Note 1

Note 1:LVDS Signal Waveform



2.Back Light Unit:

AUO M185XW01

Symbol	Parameter	Min.□	Typ.	Max.	Unit	Note
IR_{LED}	LED Operation Current	19	20	21	[mA]	Operating with fixed driving current
V_{LB}	Light Bar Operation Voltage (for reference)	39.2	44.8	47.6	[Volt] Note 1	
P_{BLU}	BLU Power consumption (for reference)	4.4	5.4	6.0	[Watt]	
LT_{LED}	LED life Time	25,000	30,000	--	[Hour] Note 2	

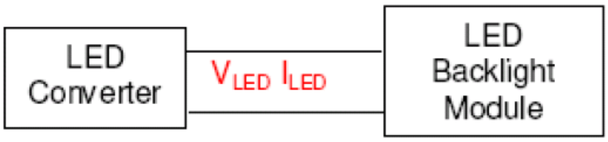
Note 1 : The value showed in the table is one light bar's operation voltage.
Note 2 : Based on the operating current is 20mA.

TPV TPM185B1-L01

Ta = 25 ± 2 ºC

Parameter	Symbol	Value			Unit	Note
		Min.	Typ.	Max.		
Light Bar Input Voltage	V_{LED}	--	23.1	--	V_{DC}	(Duty 100%)
Light Bar Input Current	I_{LED}	--	200	--	mA_{DC}	(Duty 100%) per string
Power Consumption	P_{LED}	--	9.24	--	W	(1)
LED Life Time	L_{BL}	20000	--	--	Hrs	(2)

Note：
(1) PLED = (ILED×8) ×VLED ×2, LED matrix is 7S8P.
(2)The lifetime of LED is defined as the time when it continues to operate under the conditions at Ta = 25 ± 2 ºC and I = 25 mA(Per EA) until the brightness becomes ≤50% of its original value.



TPV TPM185B1-XW01

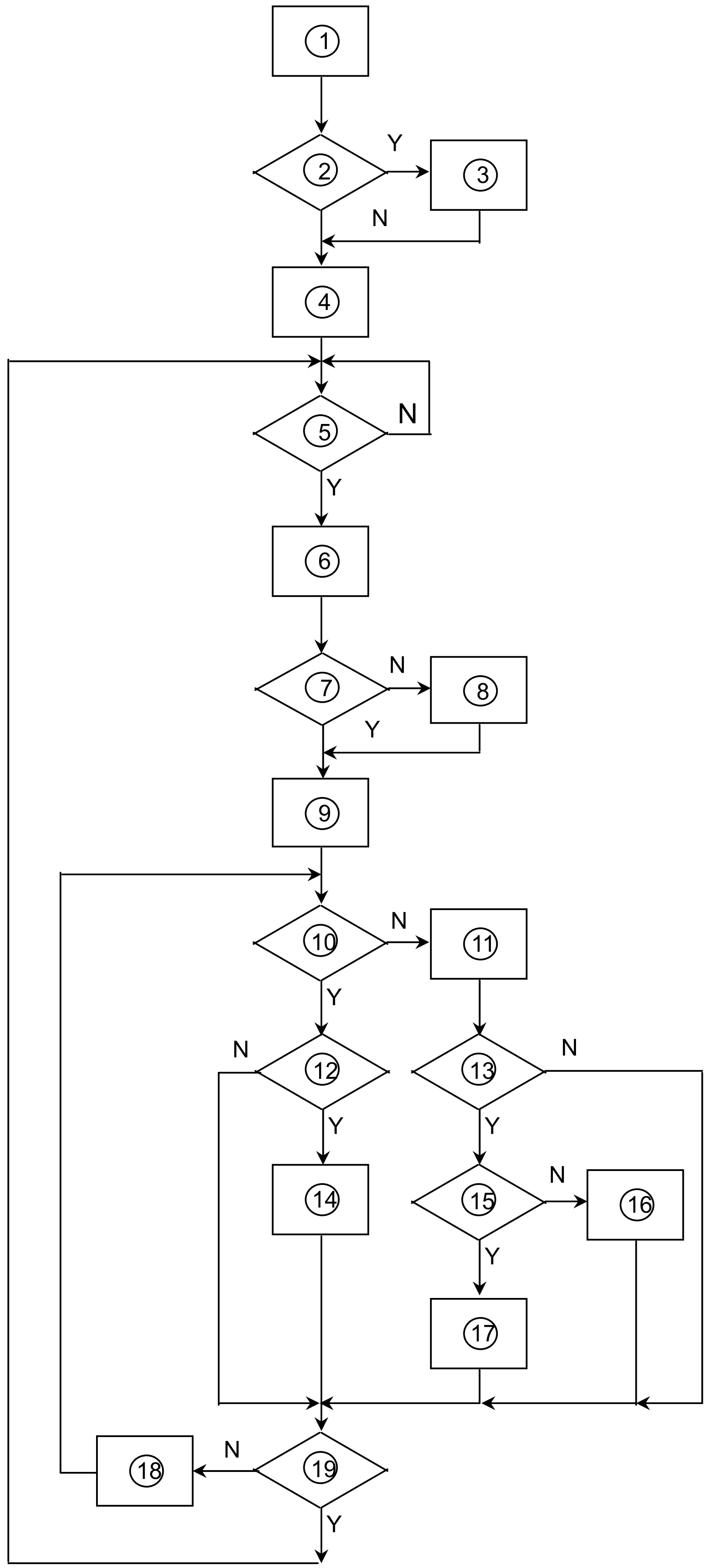
Ta = 25 ºC

Symbol	Parameter	Min.	Typ.	Max.	Unit	Note
I_{LED}	LED Operation Current	--	25	27.5	[mA]	Operating with fixed driving current
V_{LED}	LED Operation Voltage (for reference)	3.0	3.3	3.5	[Volt]	
P_{LED}	BLU Power Consumption (for reference)	--	9.24	--	[Watt]	

Note (1): The LED can work normally if the PWM dimming ratio range is form 0% to 100% and the operation current is 25mA.
Note (2): $P_{LED} = (I_{LED} \times 8) \times (V_{LED} \times 7) \times 2$, LED matrix is 7S8P.
Note (3) : The lifetime of LED is defined as the time when it continues to operate under the conditions at Ta = 25 ± 2 ºC and I = 25 mA(Per EA) until the brightness becomes ≤50% of its original value.
Note (4) : LED: 45-21UFC/S1047-1/TR8（Everlight Electronics Co., Ltd.）

6. Block Diagram

6.1 Software Flow Chart

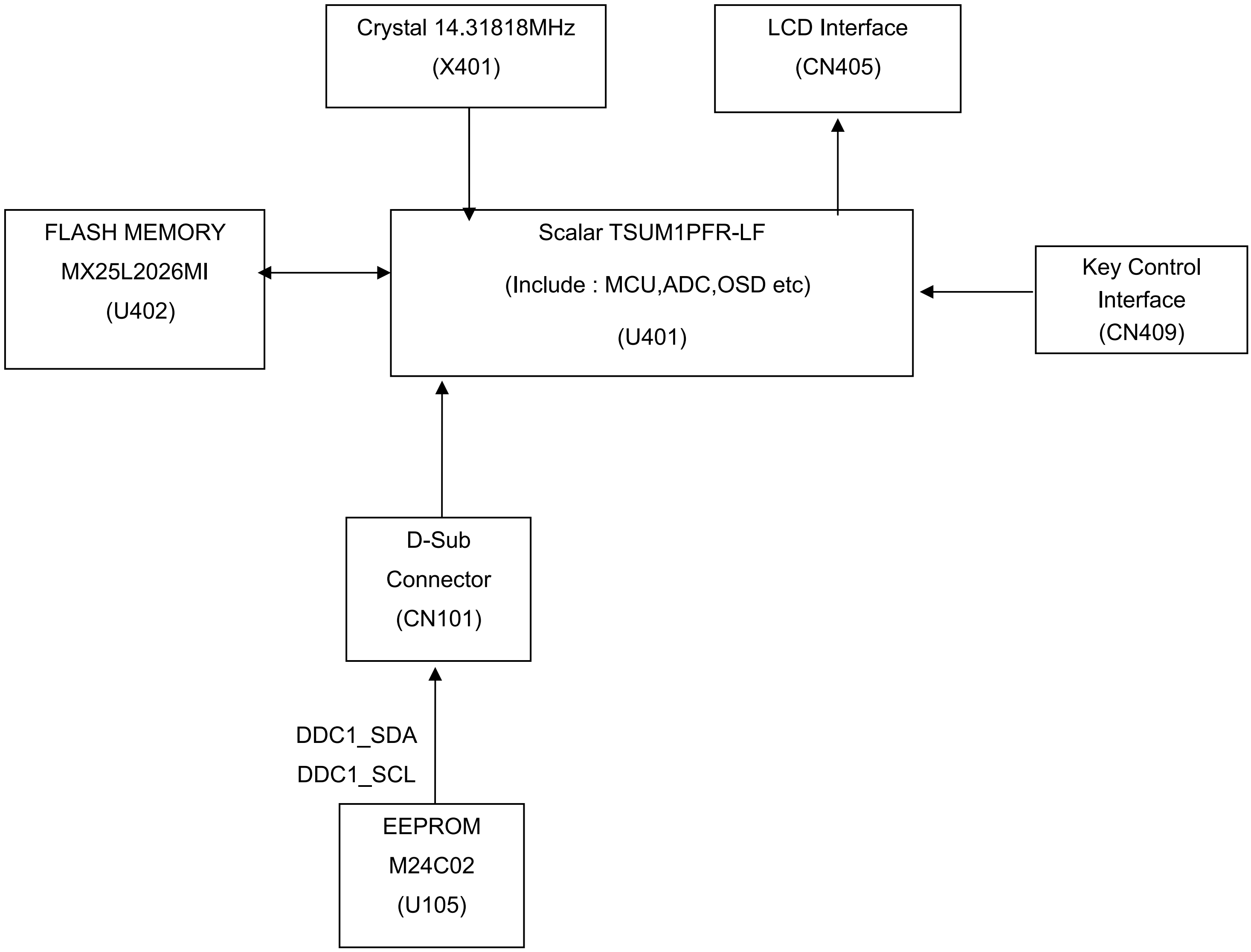


REMARK:

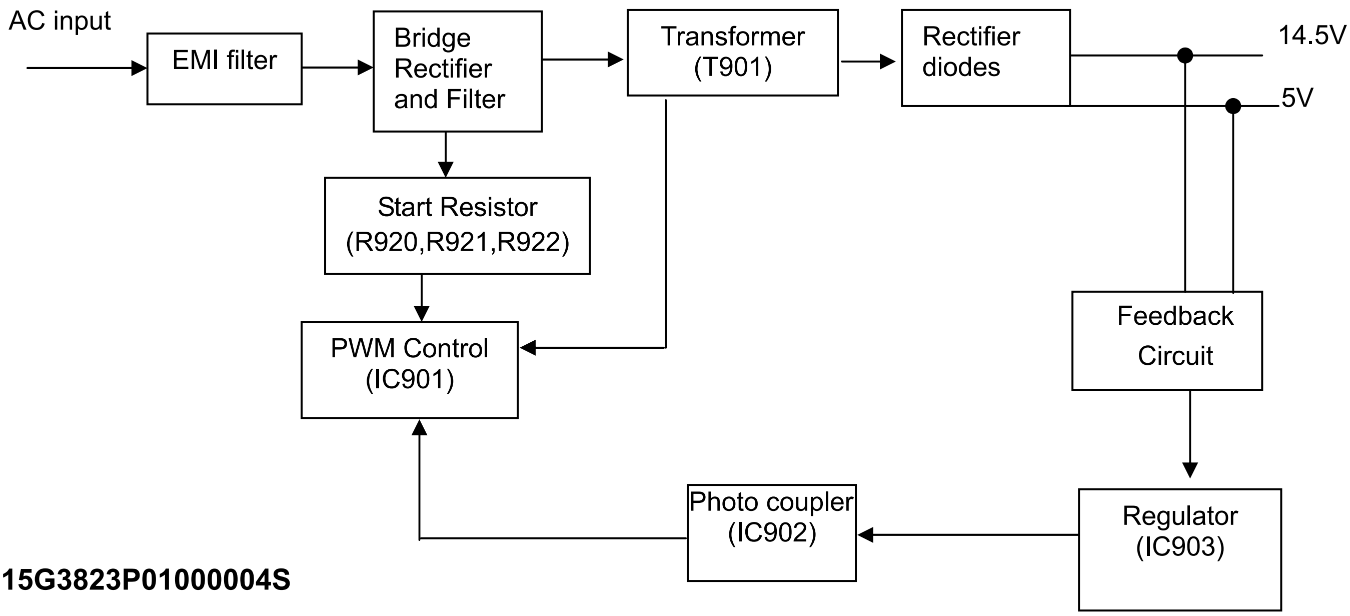
1) MCU initialize.
2) Is the EEprom blank?
3) Program the EEprom by default values.
4) Get the PWM value of brightness from EEprom.
5) Is the power key pressed?
6) Clear all global flags.
7) Are the AUTO and SELECT keys pressed?
8) Enter factory mode.
9) Save the power key status into EEprom.Turn on the LED and set it to green color. Scalar initialize.
10) In standby mode?
11) Update the lifetime of back light.
12) Check the analog port, are they're any signals coming?
13) Does the scalar send out an interrupt request?
14) Wake up the scalar.
15) Are there any signals coming from analog port?
16) Display "No connection Check Signal Cable" message. And go into standby mode after the message disappear.
17) Program the scalar to be able to show the coming mode.
18) Process the OSD display.
19) Read the keyboard. Is the power key pressed?

6.2 Electrical Block Diagram

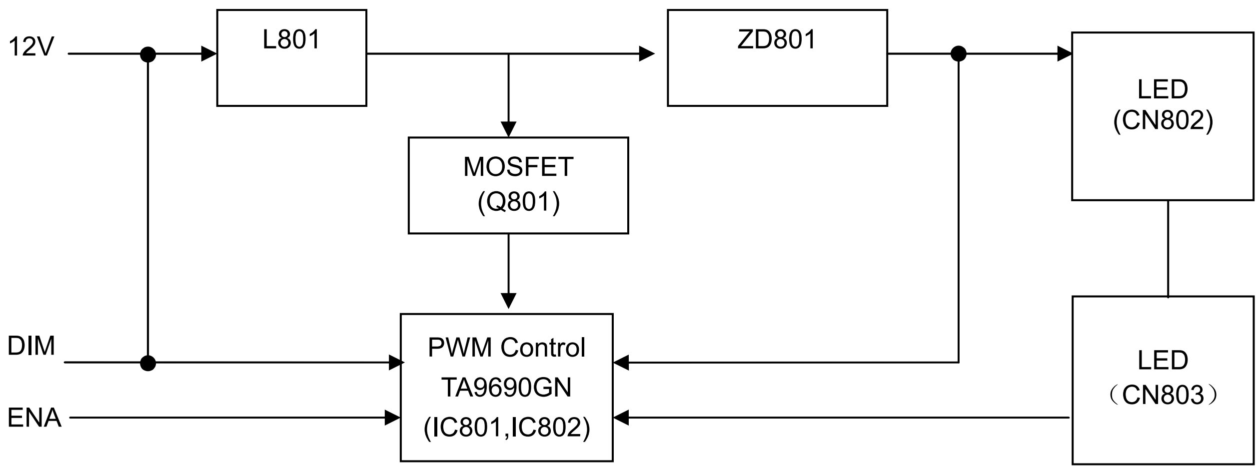
6.2.1 Scalar Board



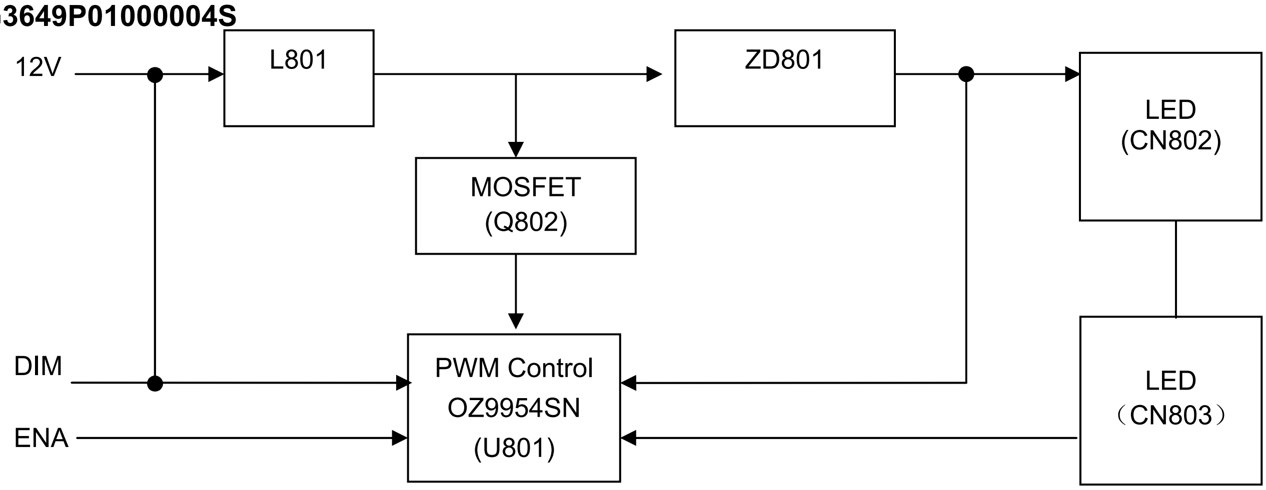
6.2.2 Inverter / Power Board



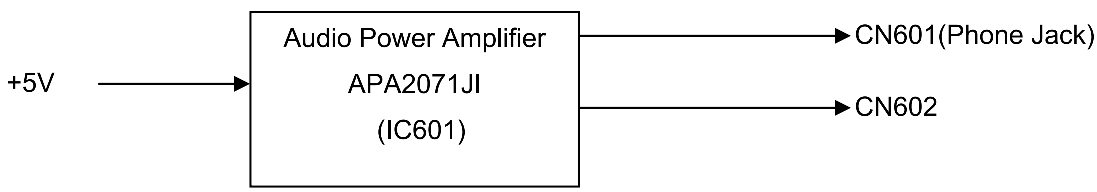
715G3823P01000004S



715G3649P01000004S



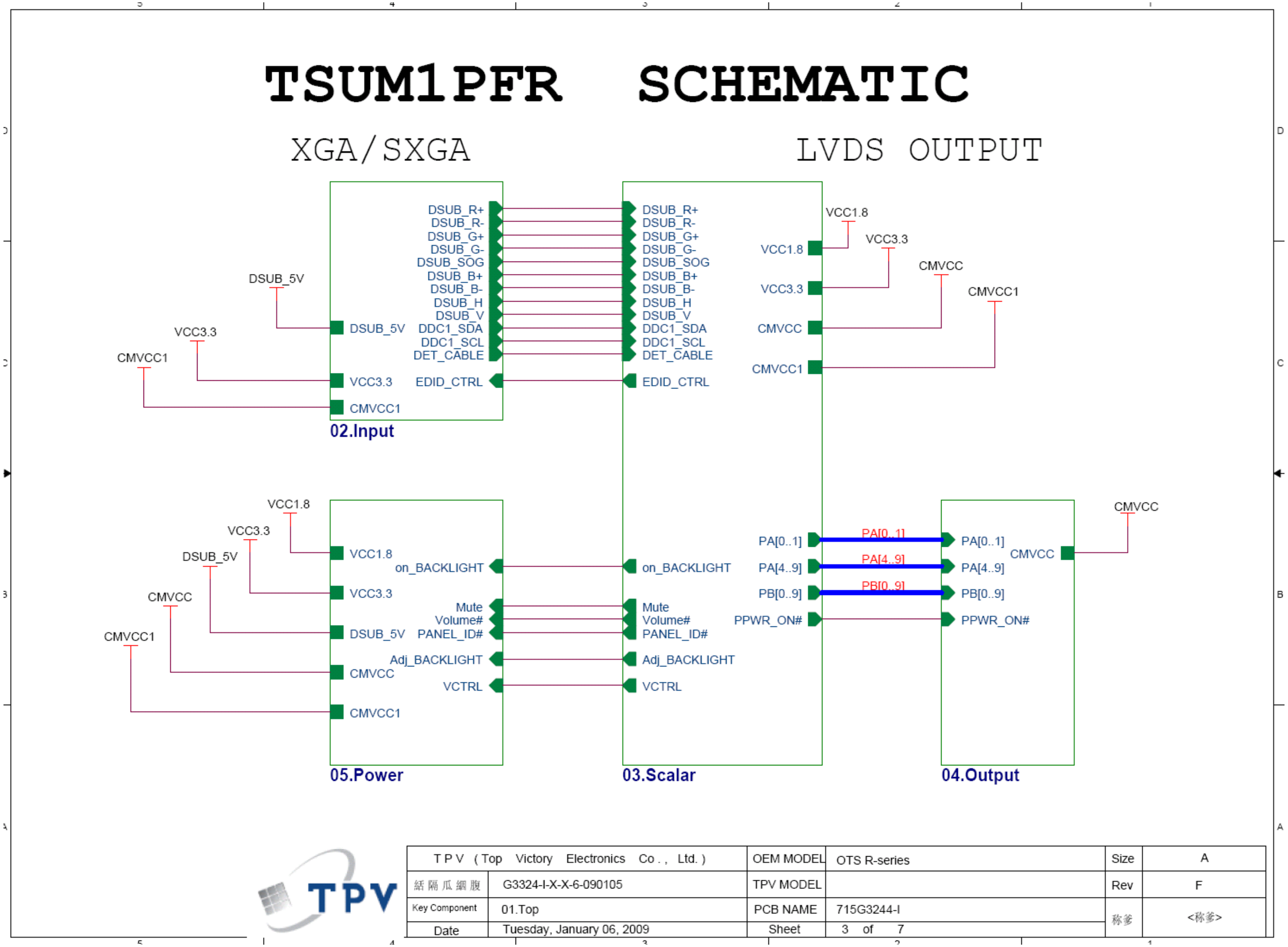
Audio

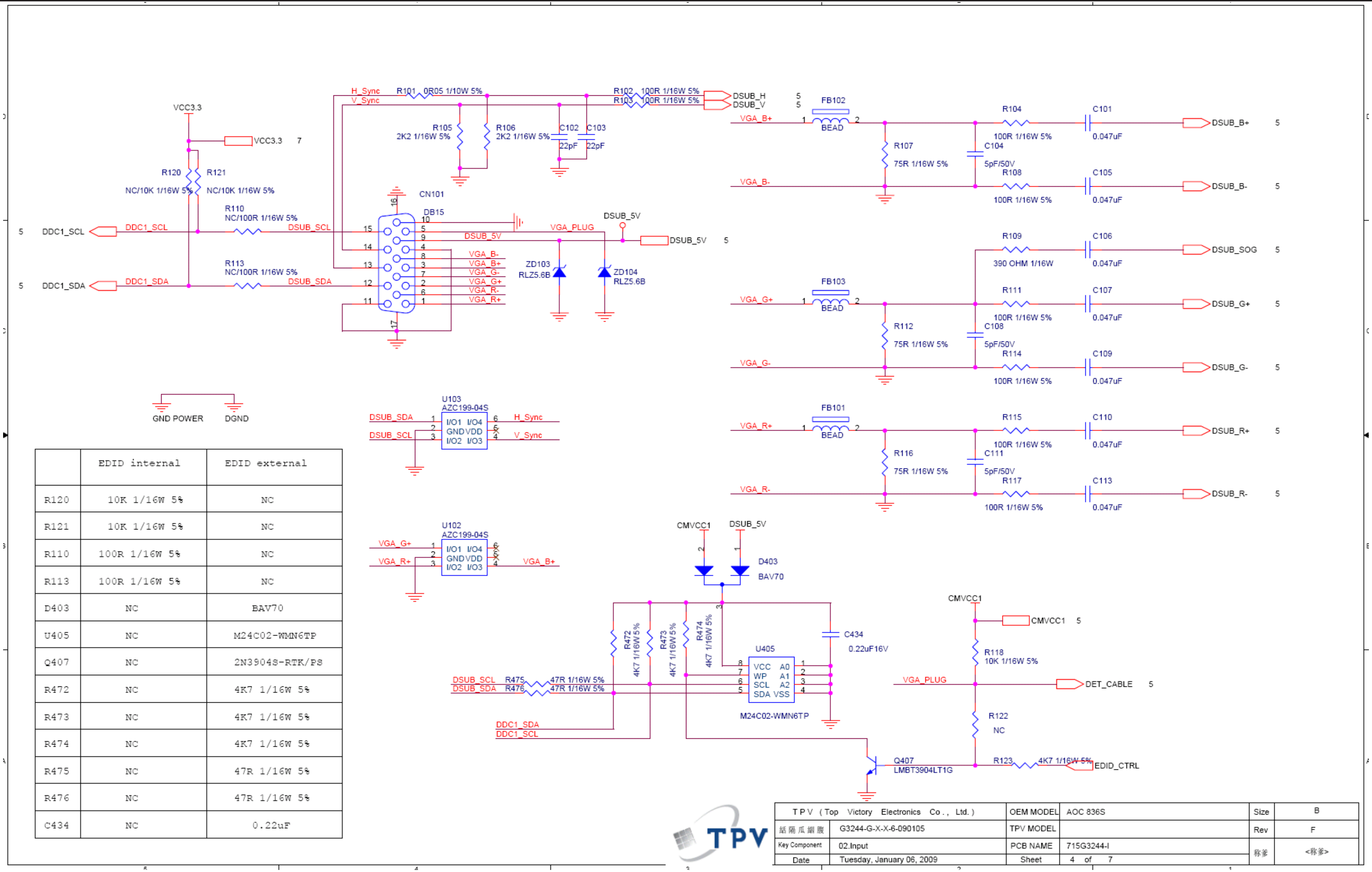


7. Schematic

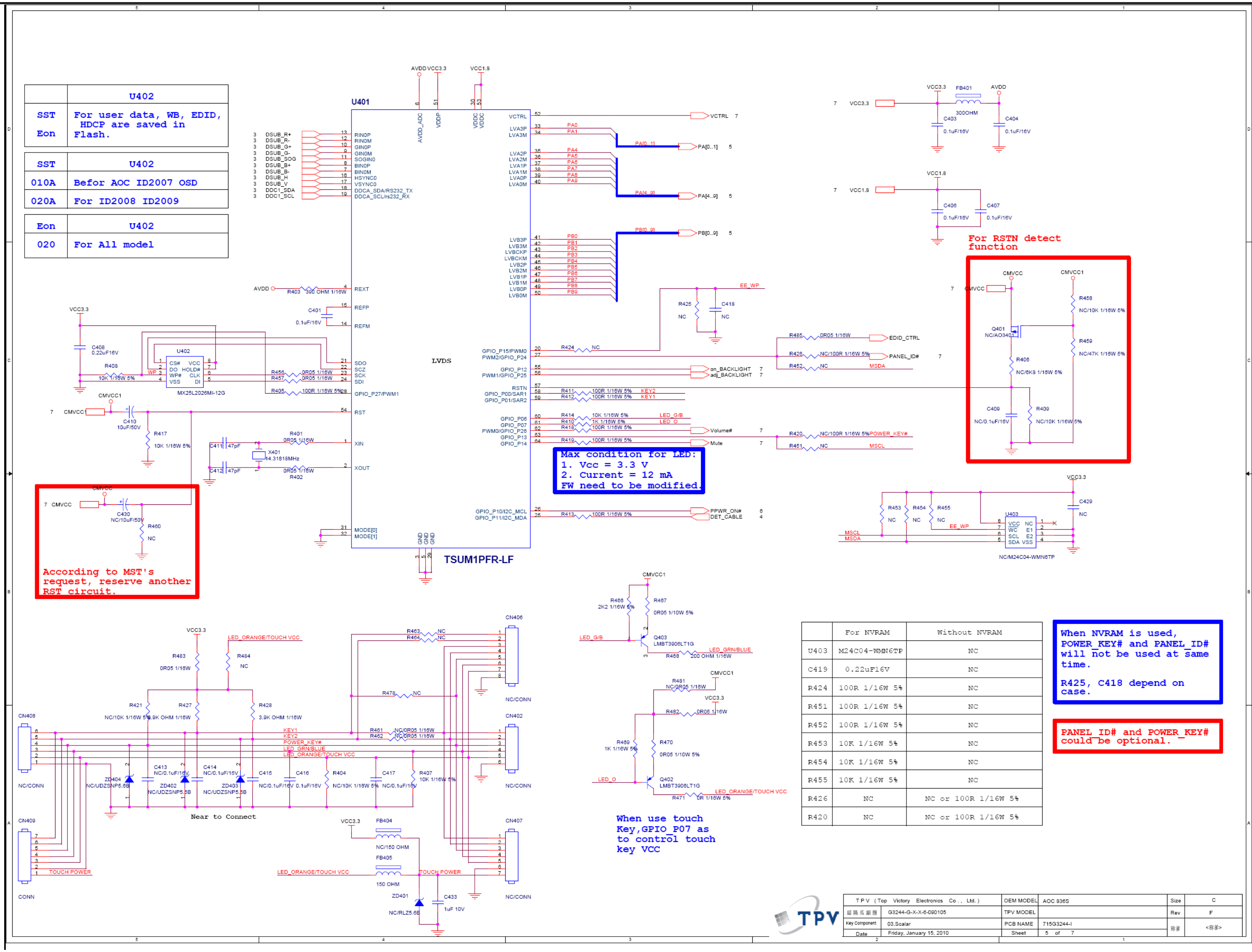
7.1 Main Board

715G3244 1





	EDID internal	EDID external
R120	10K 1/16W 5%	NC
R121	10K 1/16W 5%	NC
R110	100R 1/16W 5%	NC
R113	100R 1/16W 5%	NC
D403	NC	BAV70
U405	NC	M24C02-WMN6TP
Q407	NC	2N3904S-RTK/PS
R472	NC	4K7 1/16W 5%
R473	NC	4K7 1/16W 5%
R474	NC	4K7 1/16W 5%
R475	NC	47R 1/16W 5%
R476	NC	47R 1/16W 5%
C434	NC	0.22uF

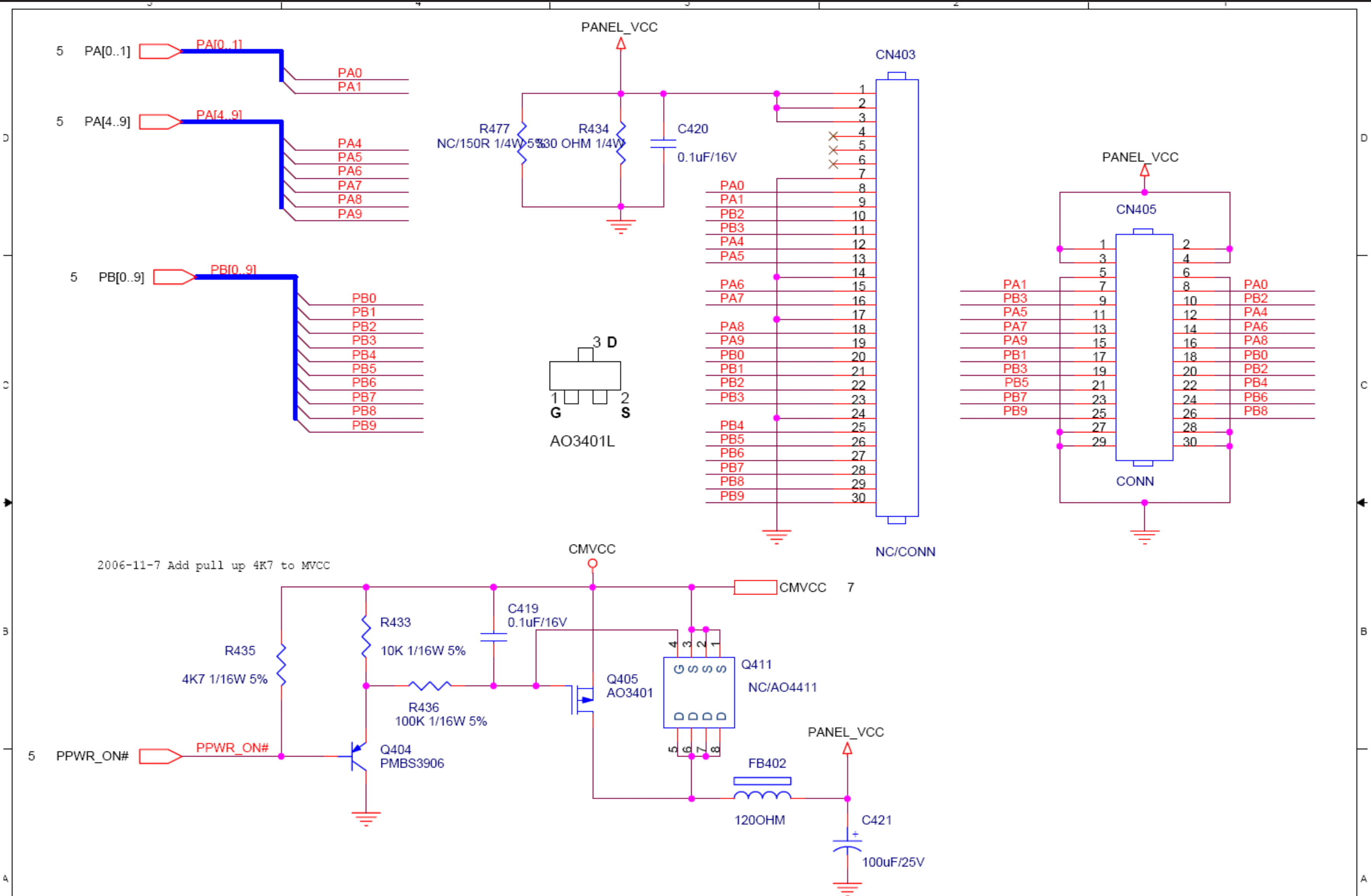


	U402
SST	For user data, WB, EDID, HDCP are saved in
Eon	Flash.

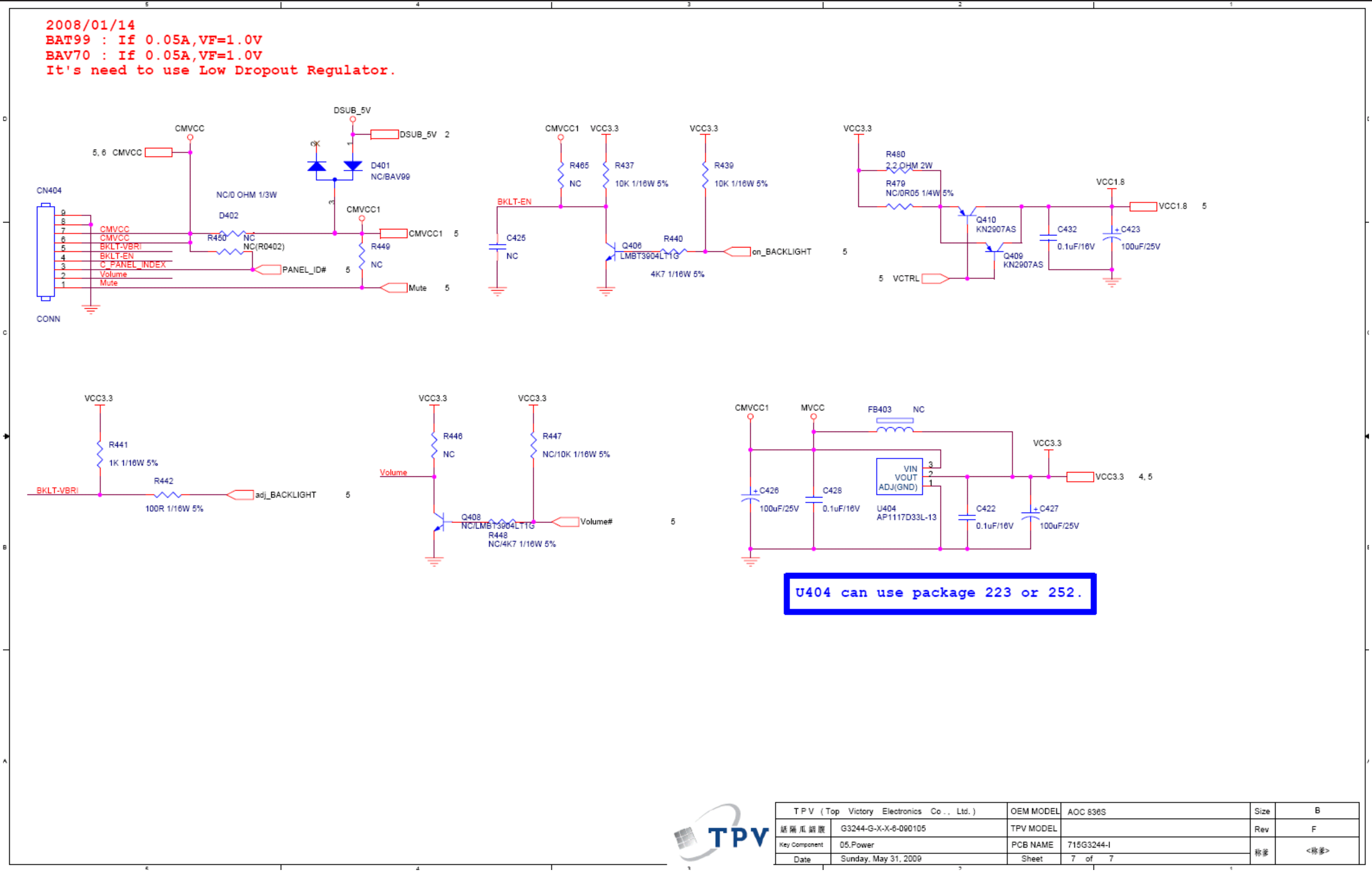
SST	U402
010A	Befor AOC ID2007 OSD
020A	For ID2008 ID2009

Eon	U402
020	For All model

	For NVRAM	Without NVRAM
U403	M24C04-WMN6TP	NC
C419	0.22uF16V	NC
R424	100R 1/16W 5%	NC
R451	100R 1/16W 5%	NC
R452	100R 1/16W 5%	NC
R453	10K 1/16W 5%	NC
R454	10K 1/16W 5%	NC
R455	10K 1/16W 5%	NC
R426	NC	NC or 100R 1/16W 5%
R420	NC	NC or 100R 1/16W 5%



T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL	AOC 836S	Size	A
紐 隔 瓜 網 腹	G3244-G-X-X-6-090105	TPV MODEL		Rev	F
Key Component	04.Output	PCB NAME	715G3244-I	称爹	<称爹>
Date	Sunday, May 31, 2009	Sheet	6 of 7		

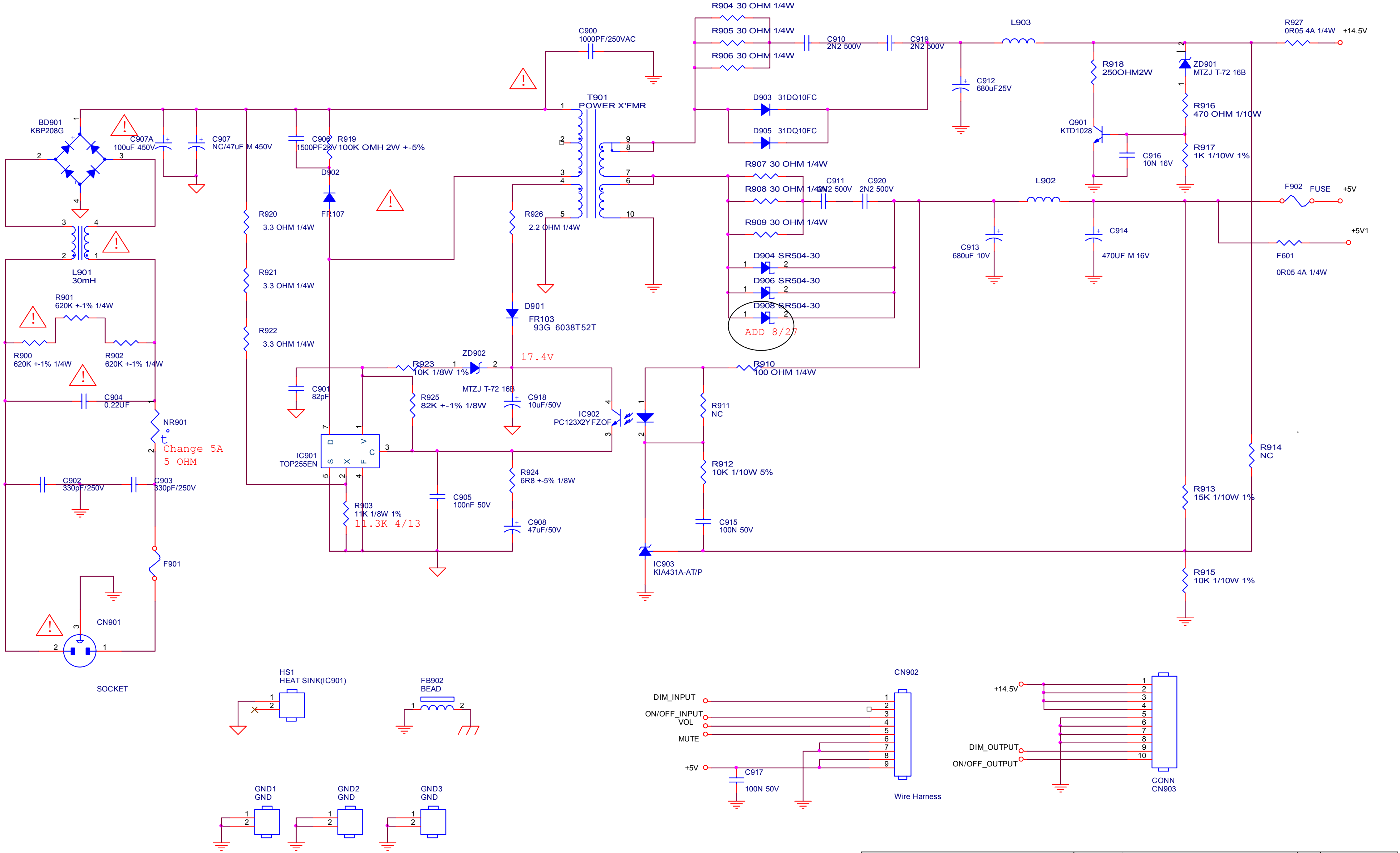


TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	AOC 836S	Size	B
廷 隆 瓜 鎮	G3244-G-X-X-6-090105	TPV MODEL		Rev	F
Key Component	05.Power	PCB NAME	715G3244-I	稱謂	<稱謂>
Date	Sunday, May 31, 2009	Sheet	7 of 7		

7.2 Power Board

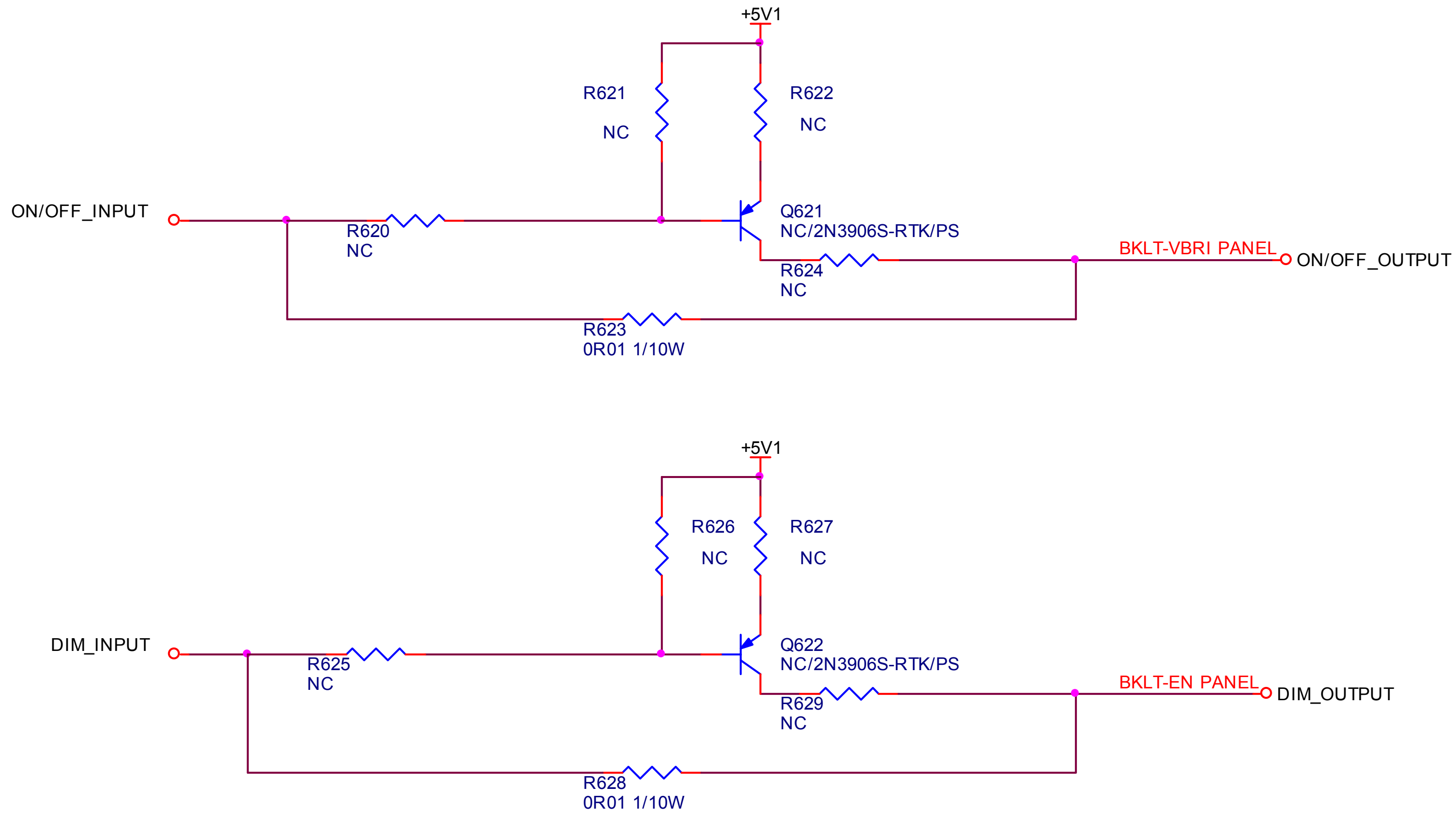
Adapter

715G3189P01LED001S & 715G3189P02LED001S

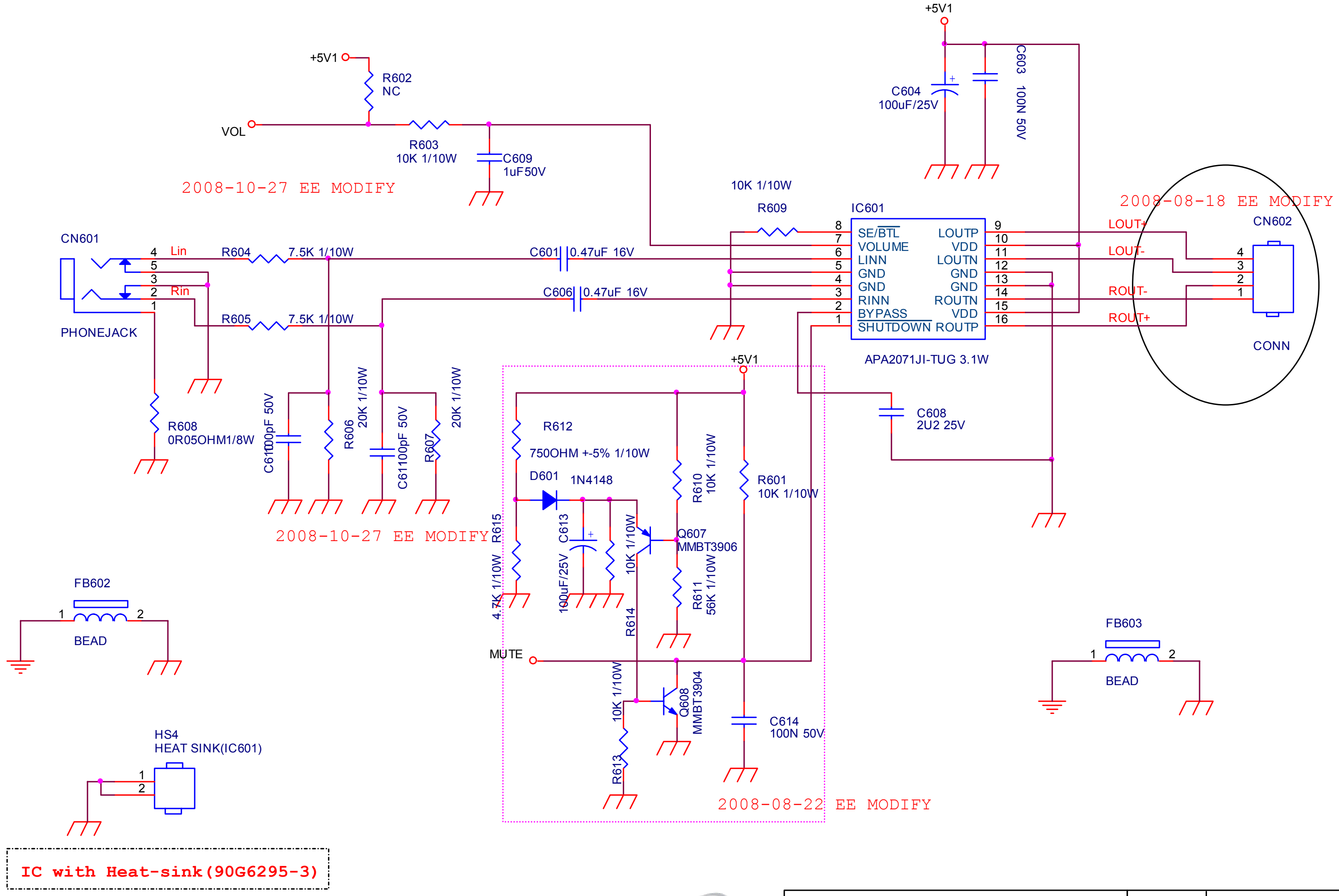


TPV

T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL		Size	Custom
[illegible]	G3189-PO1-LED-X-1-091019	TPV MODEL	1	Rev	1
Key Component	02.POWER	PCB NAME	715G3189PO1LED001S	[illegible]	ODM MODEL
Date	Tuesday, January 05, 2010	Sheet	of		

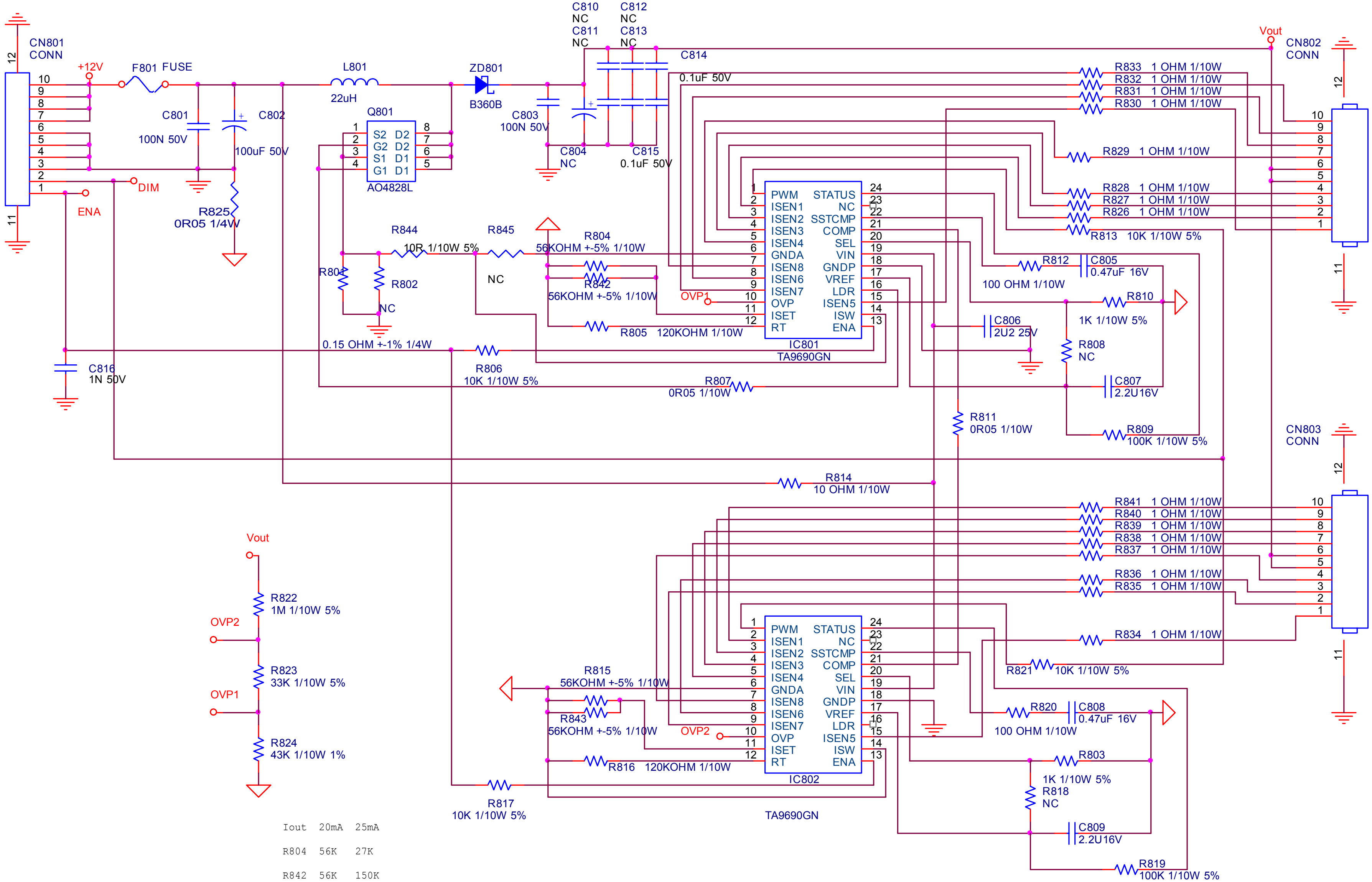


T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL		Size	A
紆 隔 瓜 鋼 腹	G3189-PO1-LED-X-1-091019	TPV MODEL	1	Rev	1
Key Component	04.BUFEER	PCB NAME	715G3189PO1LED001S	称 爹	ODM MODEL
Date	Tuesday , January 05, 2010	Sheet	of		



TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL		Size	Custom
結 膈 瓜 綢 腹	G3189-PO1-LED-X-1-091019	TPV MODEL	1	Rev	1
Key Component	03.AUDIO	PCB NAME	715G3189PO1LED001S	称爹	ODM MODEL
Date	Tuesday, January 05, 2010	Sheet	of		

Converter
715G3823P01000004S



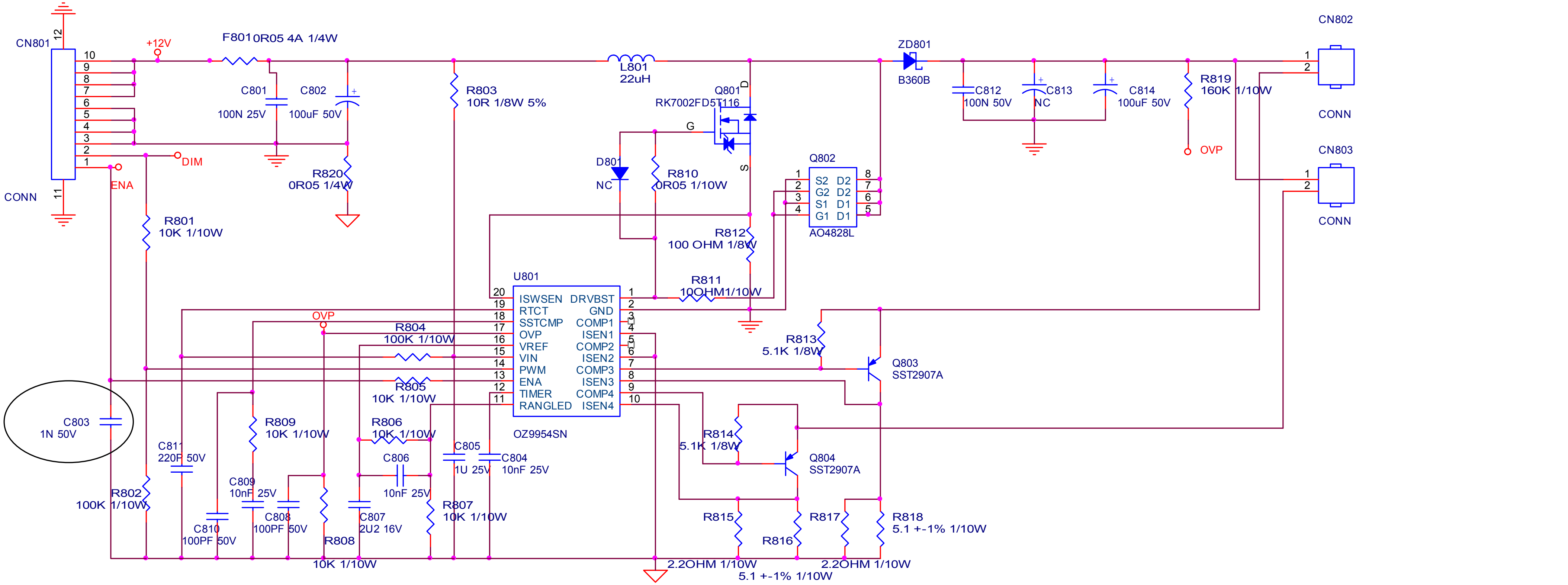
Iout	20mA	25mA
R804	56K	27K
R842	56K	150K
R815	56K	27K
R843	56K	150K

TPV

TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL		Size	A4
絕 隔 瓜 綢 腹	G3823-P01-000-0040-2-091028	TPV MODEL	LNPC98501AHD1	Rev	1
Key Component	02.CONVERTER	PCB NAME	715G3823P01000004S	称 爹	ODM MODEL
Date	Tuesday, December 08, 2009	Sheet	of		

Converter

715G3649P01000004S

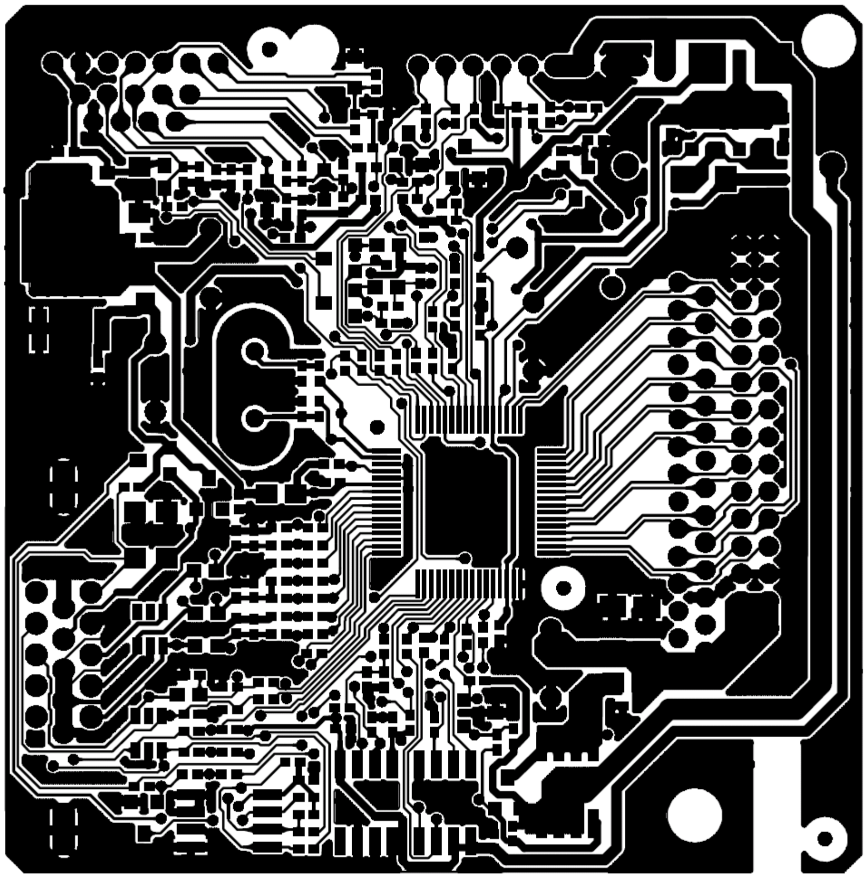


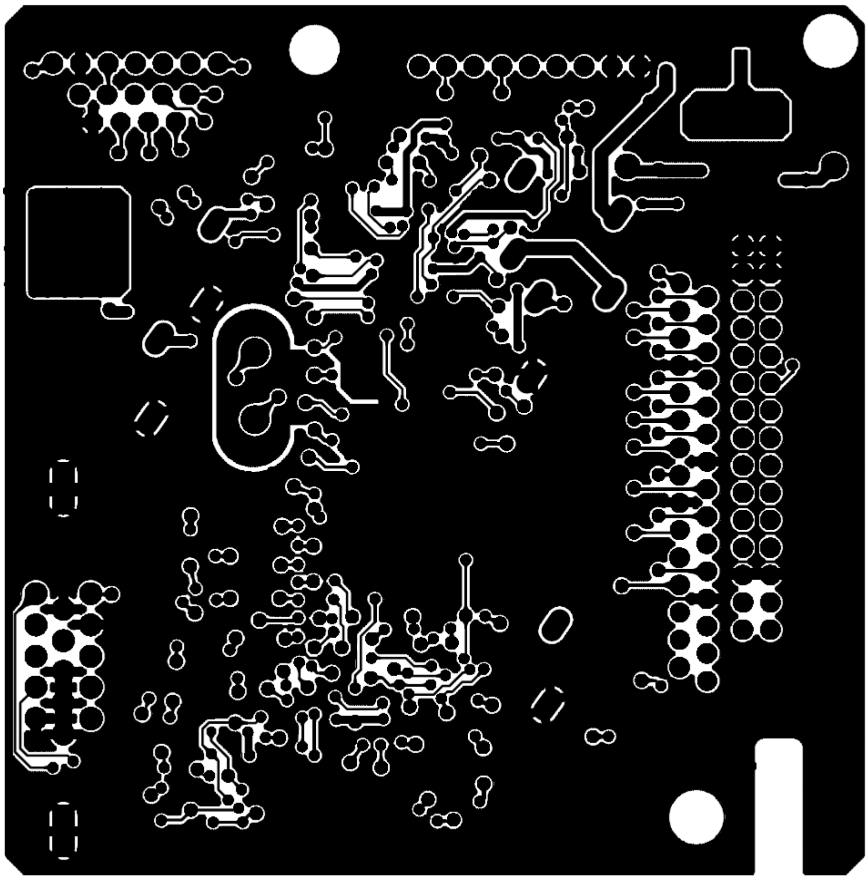
TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	e936vw	Size	A4
[illegible]	G3649-P0C-000-X-1-090911	TPV MODEL	ADPC93302HB7	Rev	1
Key Component	02.CONVERTER	PCB NAME	715G3649P0C0000040	[illegible]	ODM MODEL
Date	Friday, September 11, 2009	Sheet	2 of 2		

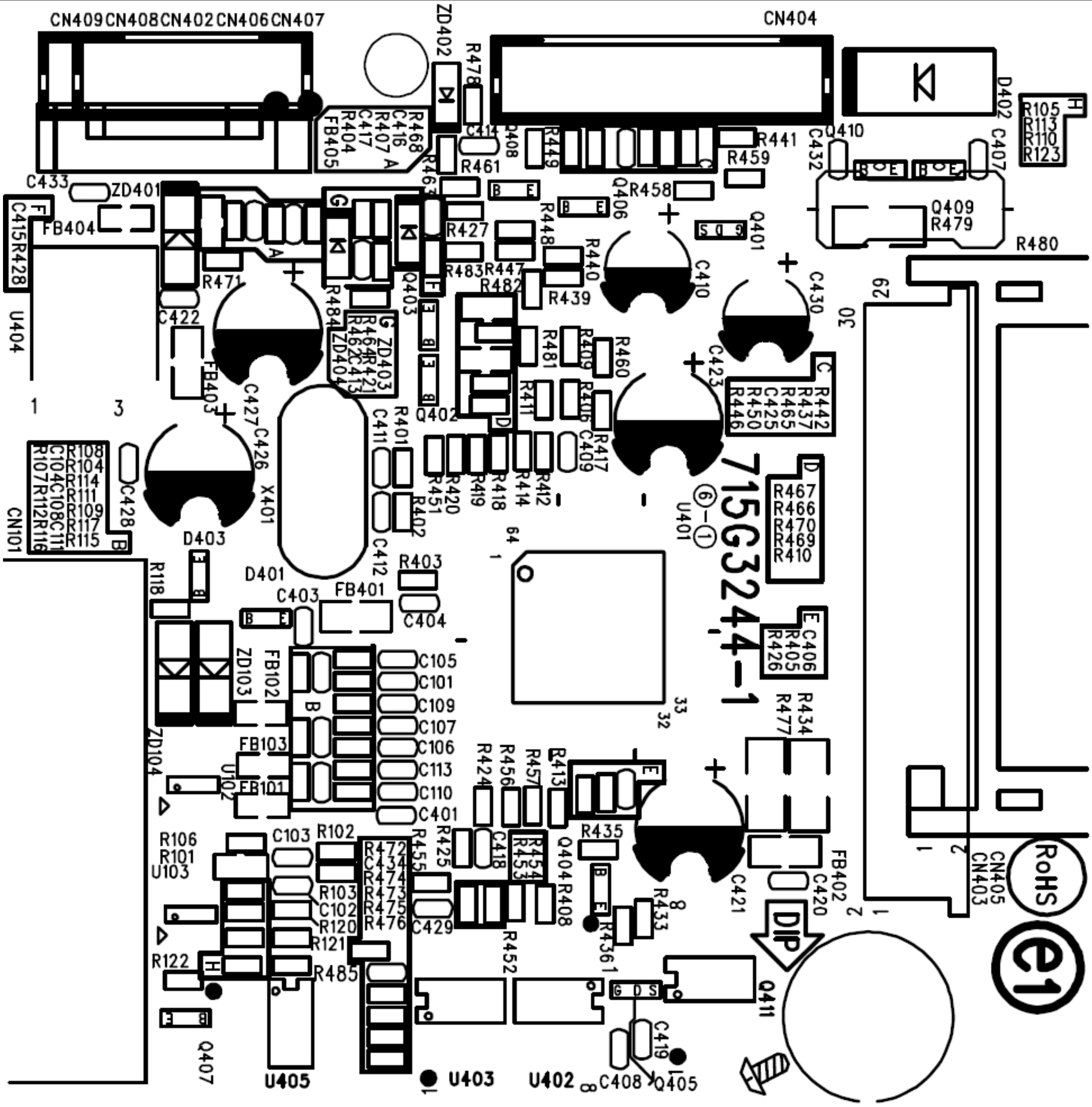
8. PCB Layout

8.1 Main Board

715G3244 1





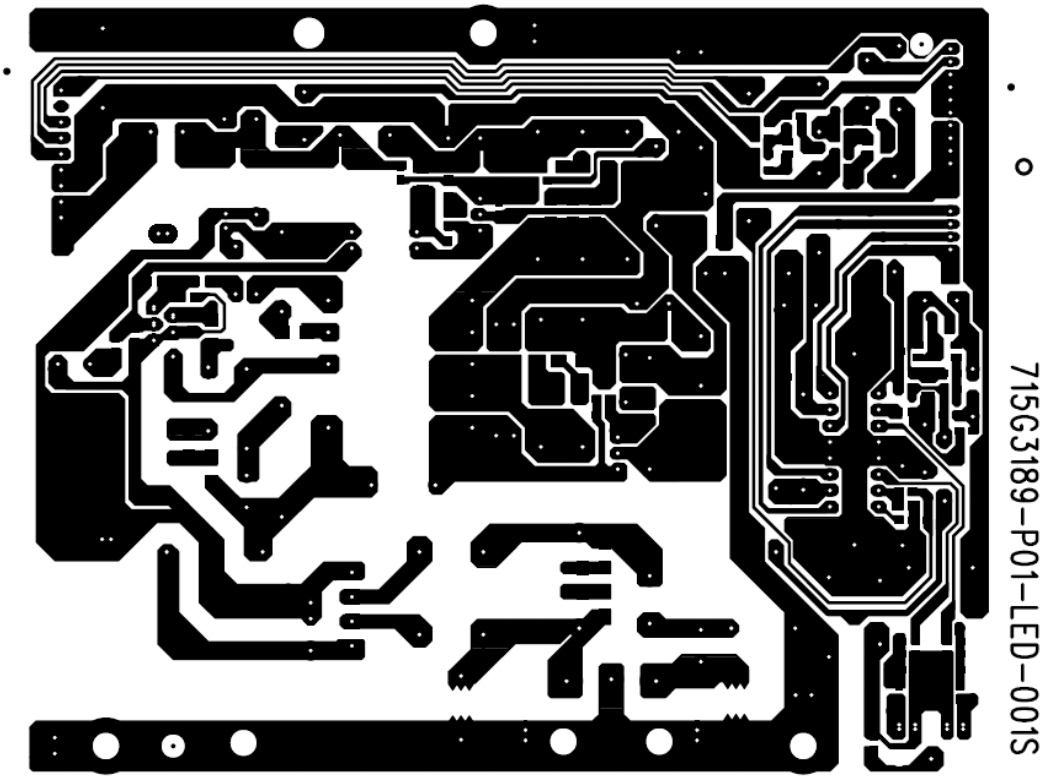


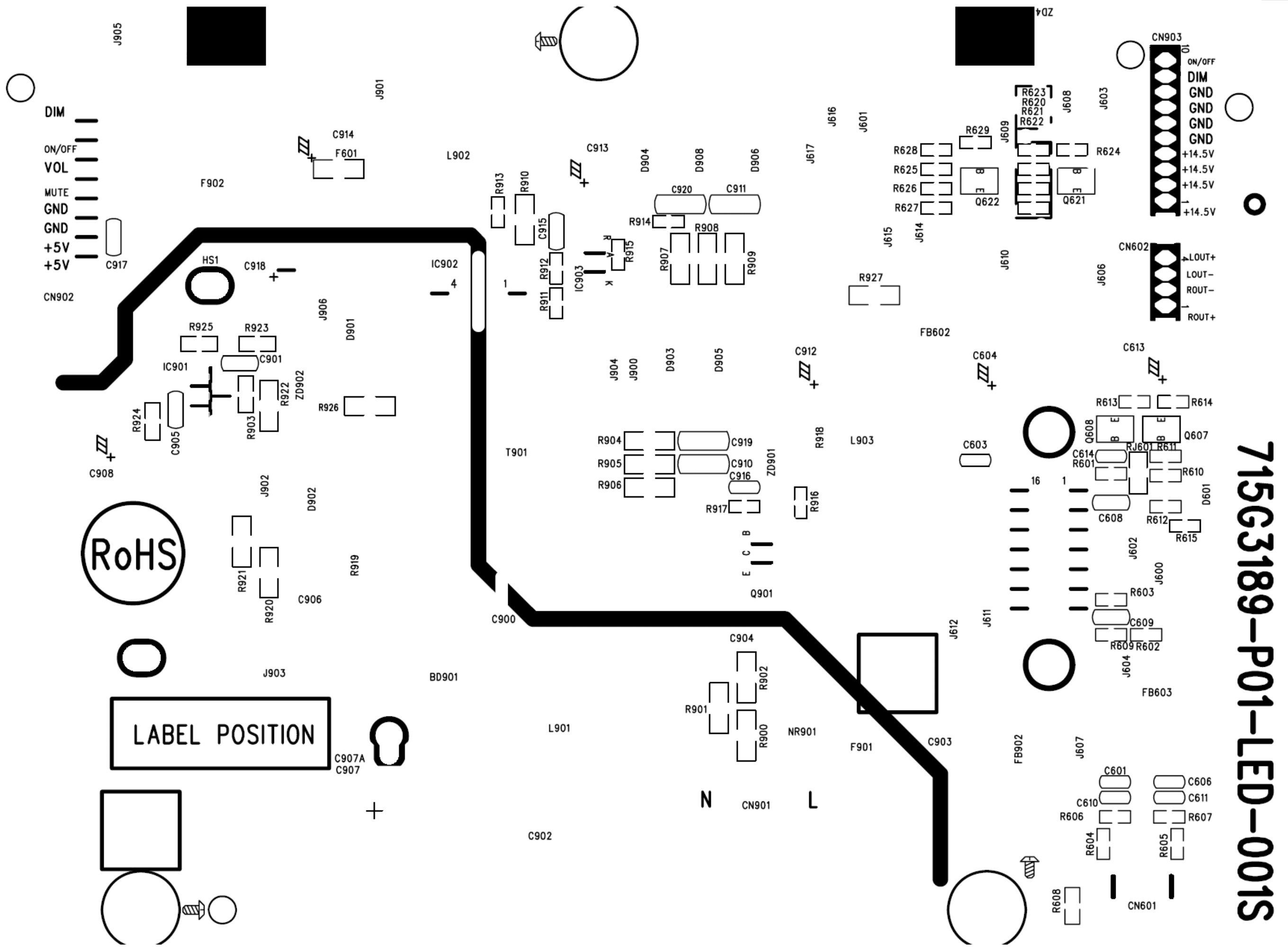
CN409 CN408 CN402 CN406 CN407
CN404
ZD402
R478
D402
R105
R113
R110
R123
C433
ZD401
C415 R428
FB404
R461
R459
R441
C432
C407
Q410
Q409
R479
R480
R458
R427
R448
R440
C410
C430
R471
R483 R447
R482
R439
C422
R484
U404
R481
R409
R460
R442
R437
R465
R425
R450
R446
C423
C427
C426
FB403
Q402
R411
R416
C409
R417
R401
C411
R108
R104
R114
R111
R109
R117
R115
C428
CN101
D403
X401
R420
R451
R419
R418
R414
R412
R402
R467
R466
R470
R469
R410
715G3244-1
U401
R118
D401
C412
R403
C403
FB401
C404
C406
R405
R426
ZD103
FB102
C105
C101
C109
C107
C106
C113
C110
C401
R434
R477
ZD104
FB103
FB101
U102
R424
R456
R457
R413
R106
R101
U103
C103
R102
R472
C434
R474
R473
R475
R476
R455
R425
C418
R454
R453
Q404
R408
R435
C421
C420
FB402
CN405
CN403
RoHS
R103
C102
R120
R121
C429
R433
R436
R452
R122
R485
Q411
DIP
C419
Q407
U405
U403
U402
C408
Q405

8.2 Power Board

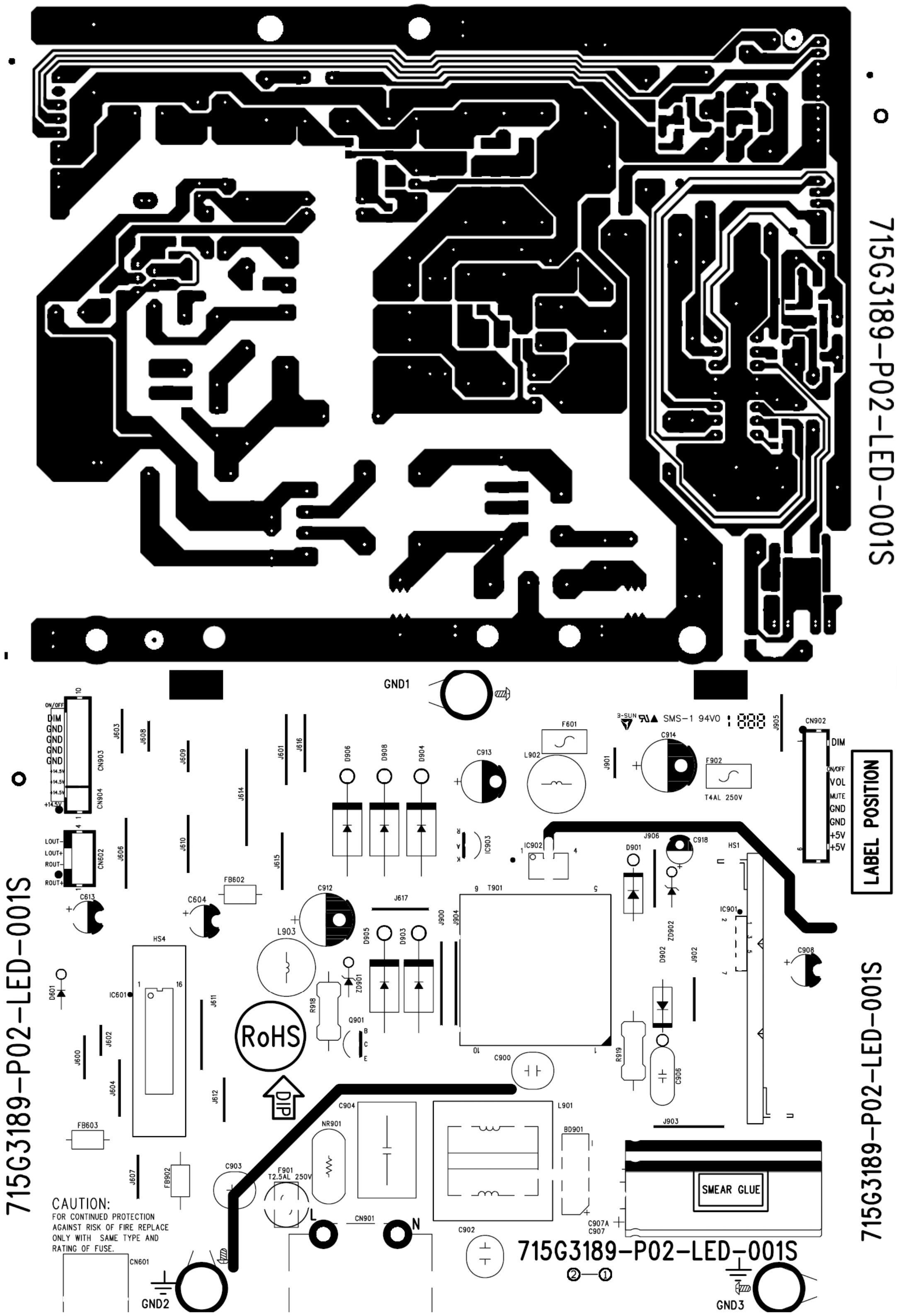
Adapter

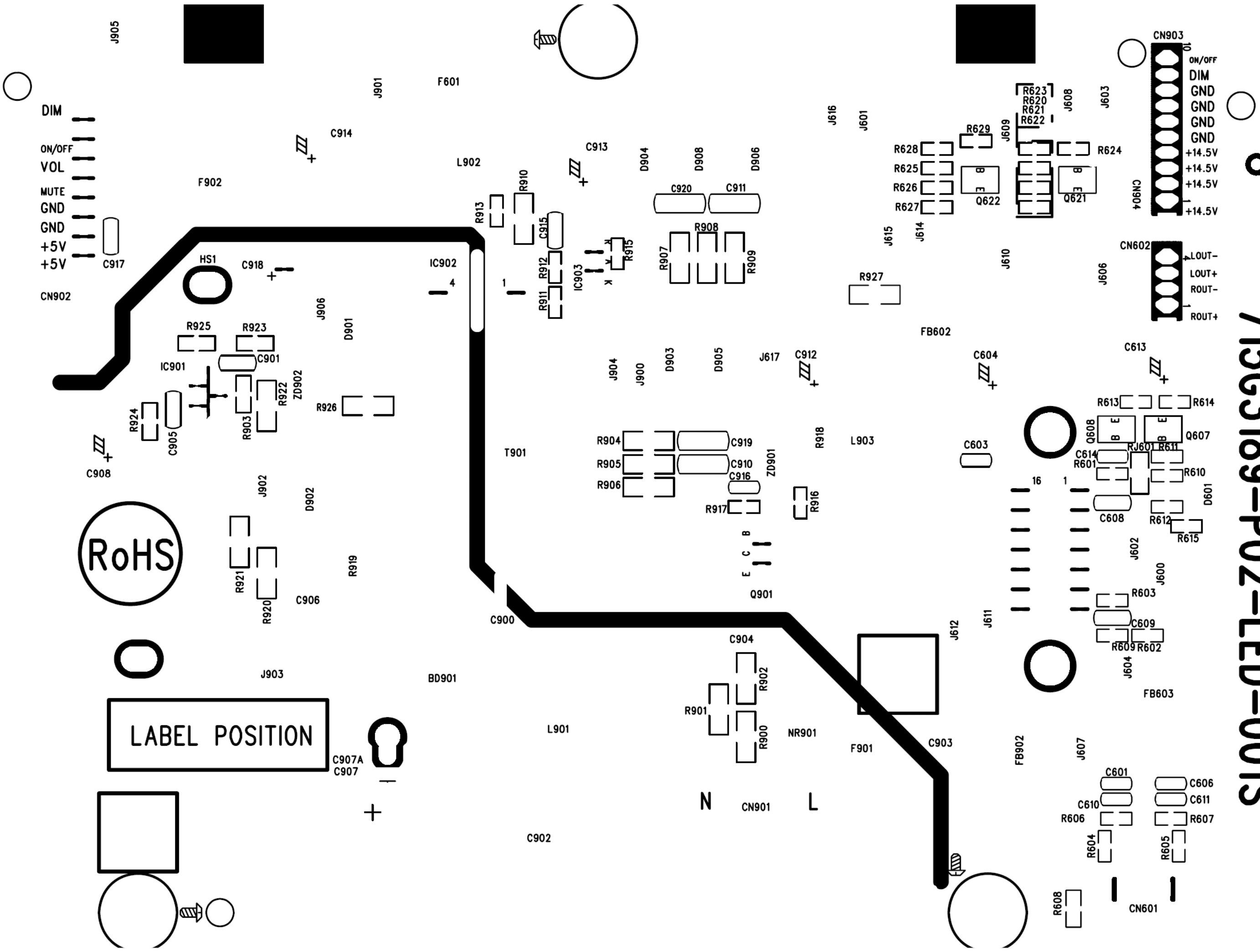
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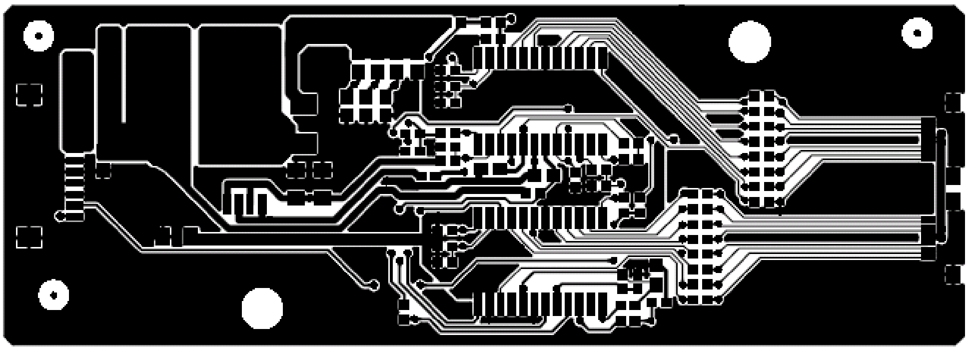
715G3189P02LED001S

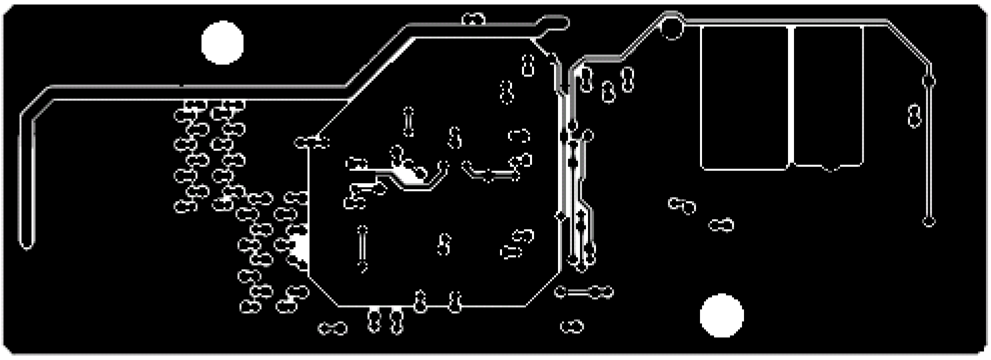


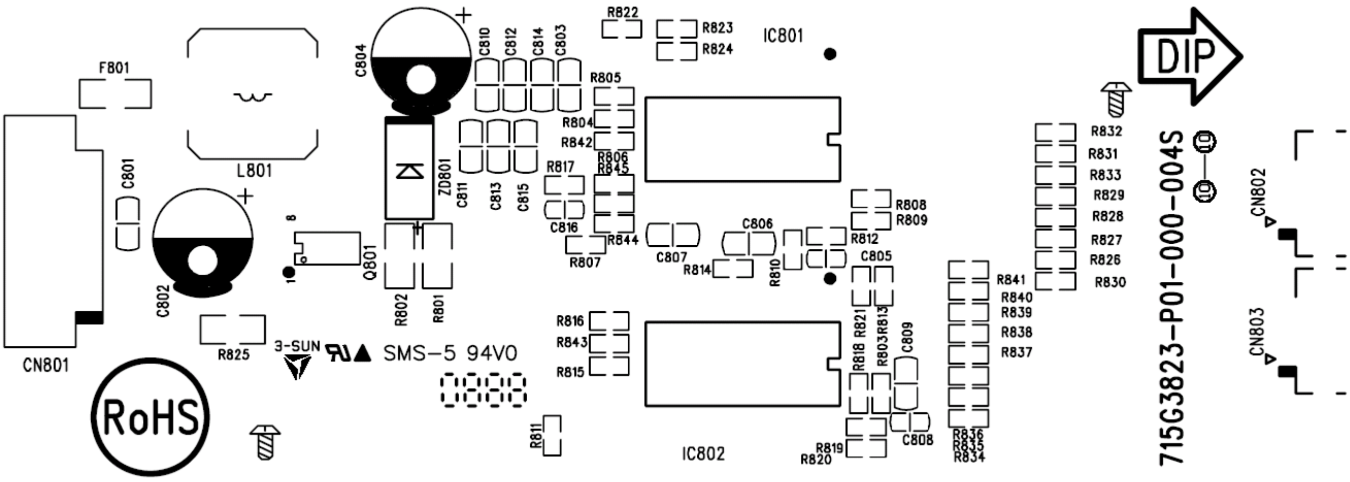

715G3189-P02-LED-001S
CN902
DIM
ON/OFF
VOL
MUTE
GND
GND
+5V
+5V
C917
J905
F902
HS1
C918
IC901
R925
R923
C901
ZD902
R922
R903
R924
C905
C908
RoHS
J902
D902
R921
R920
C906
J903
LABEL POSITION
C907A
C907
J901
F601
C914
J906
D901
R926
R919
L902
C913
R910
R913
C915
IC902
R912
R911
IC903
R915
T901
C900
BD901
L901
C902
D904
D908
D906
C920
C911
R908
R907
R909
J904
J900
D903
D905
J617
C912
R904
R905
R906
C919
C910
C916
ZD901
R917
R916
R918
L903
Q901
C904
R902
R901
R900
NR901
F901
C903
N
CN901
L
J616
J601
R927
J615
J614
FB602
C604
C603
J612
J611
R628
R625
R626
R627
R629
J609
Q622
R623
R620
R621
R622
J608
J603
R624
Q621
CN904
J610
J606
CN903
ON/OFF
DIM
GND
GND
GND
GND
+14.5V
+14.5V
+14.5V
+14.5V
CN602
LOUT-
LOUT+
ROUT-
ROUT+
C613
R613
R614
Q608
Q607
C614
R601
RJ601
R611
R610
D601
C608
R612
R615
J602
J600
R603
C609
R609
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R604
R605
R608
CN601

Converter

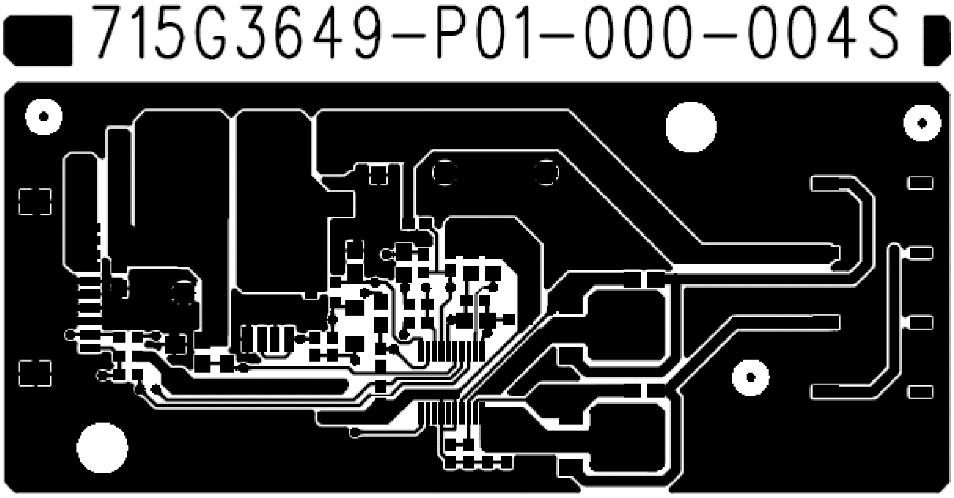
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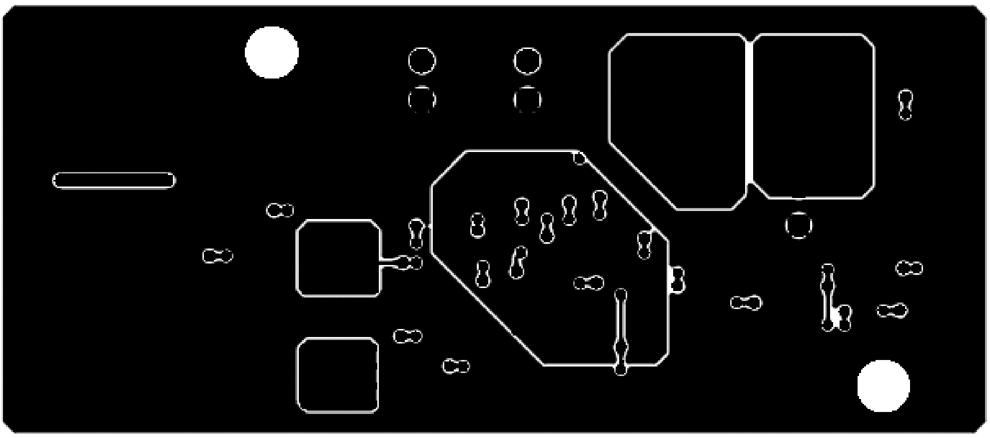




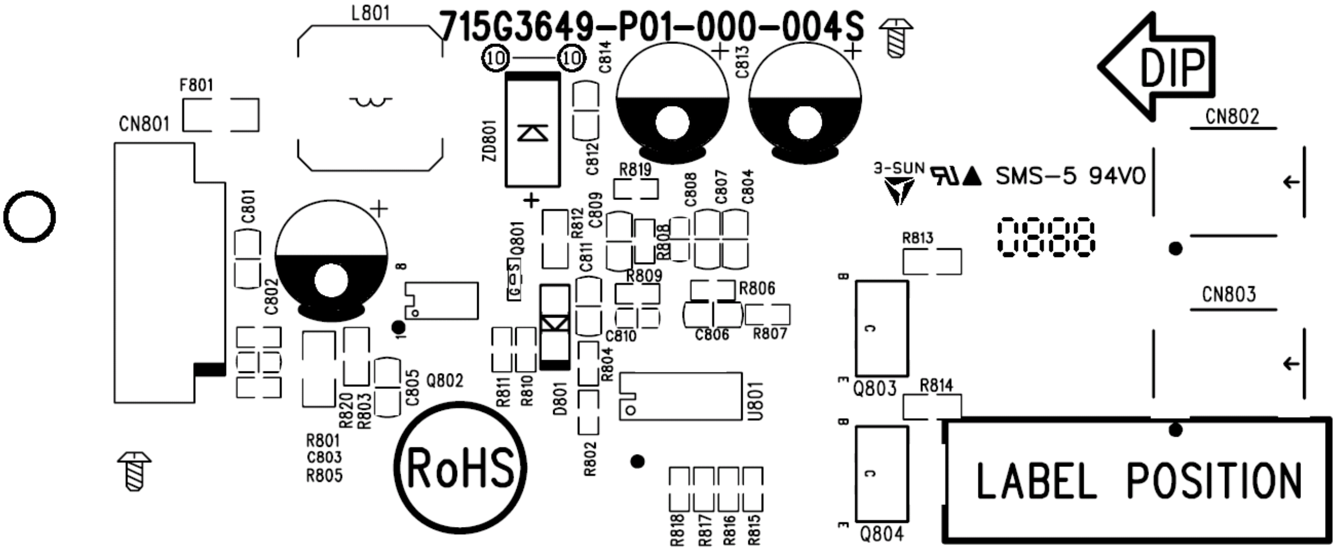


715G3649P01000004S



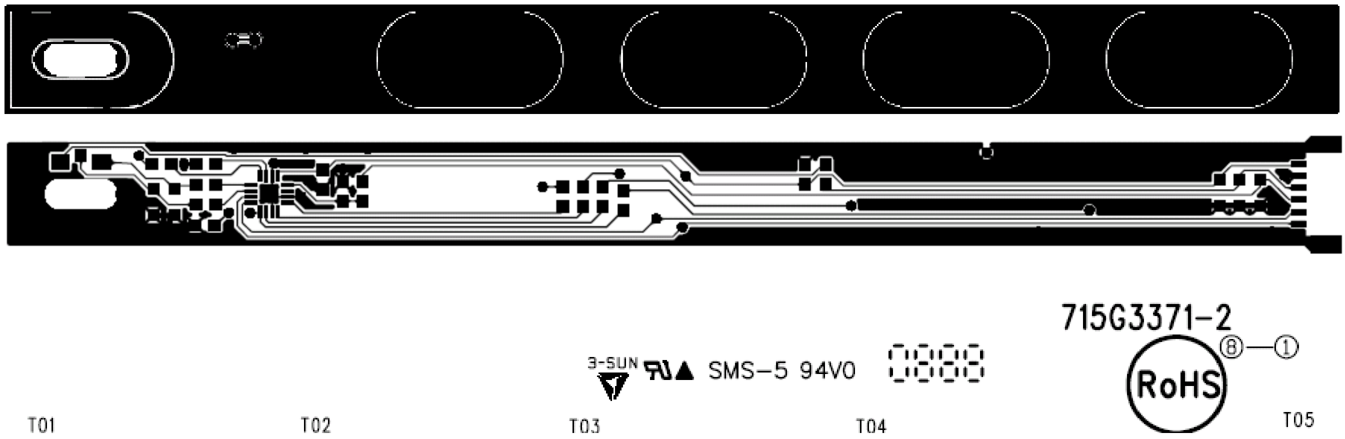


715G3649-P01-000-004S



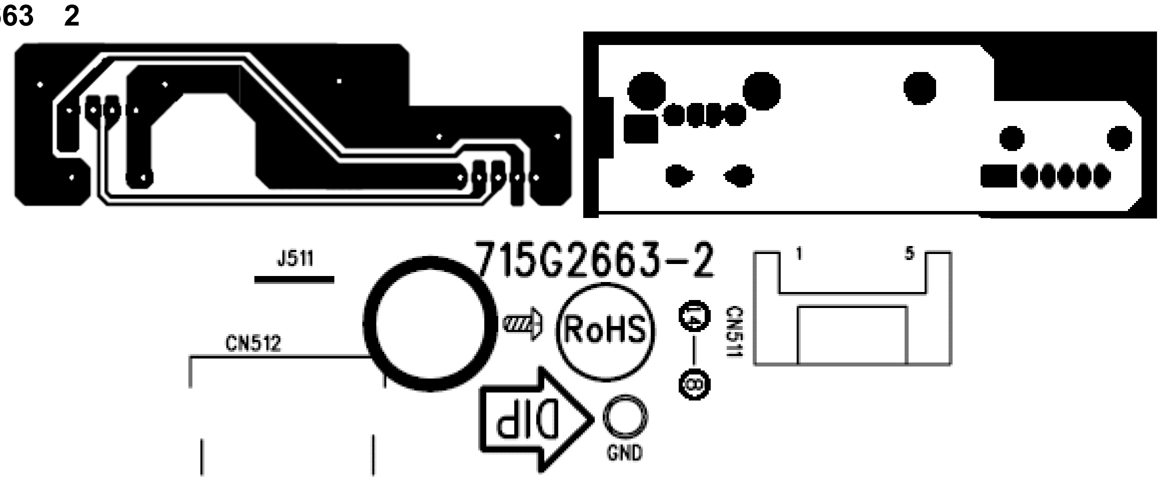
8.3 Key Board

715G3371 2

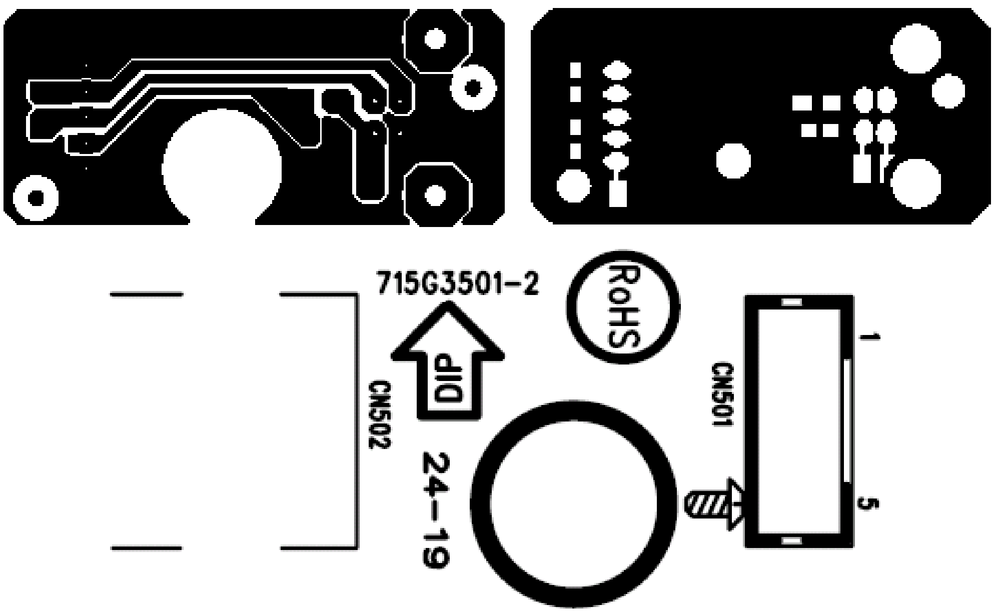


8.4 USB Board

715G2663 2



715G3501 2



9. Maintainability

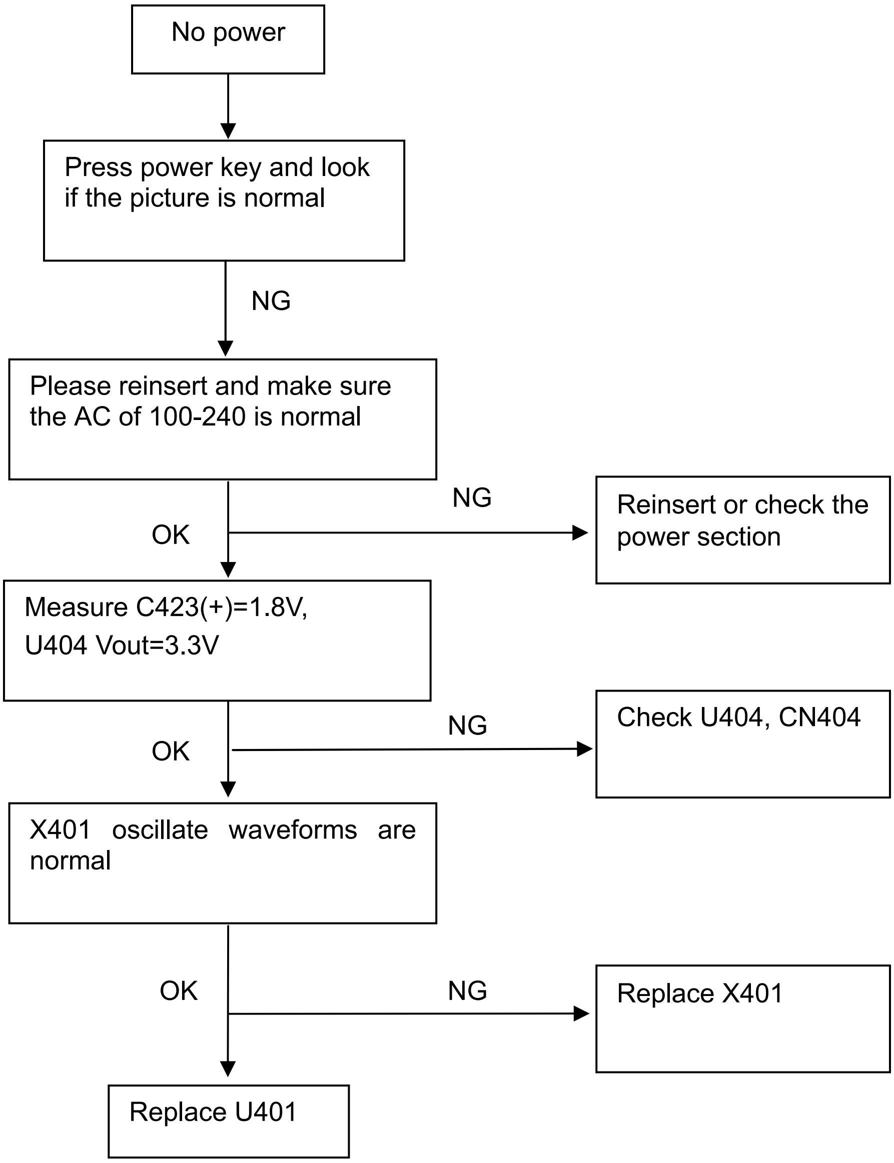
9.1 Equipments and Tools Requirement

1. Multi-meter.
2. Oscilloscope.
3. Pattern Generator.
4. DDC Tool with an Compatible Computer.
5. Alignment Tool.
6. LCD Color Analyzer.
7. Service Manual.
8. User Manual.

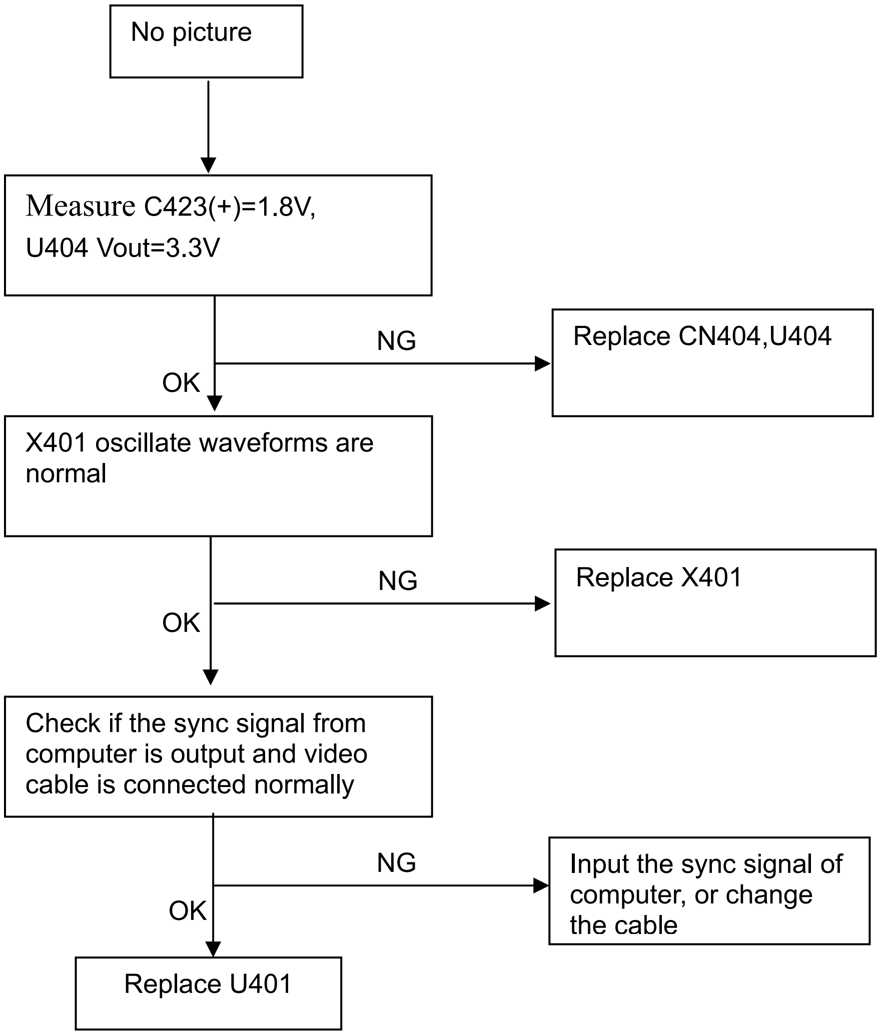
9.2 Trouble Shooting

9.2.1 Main Board

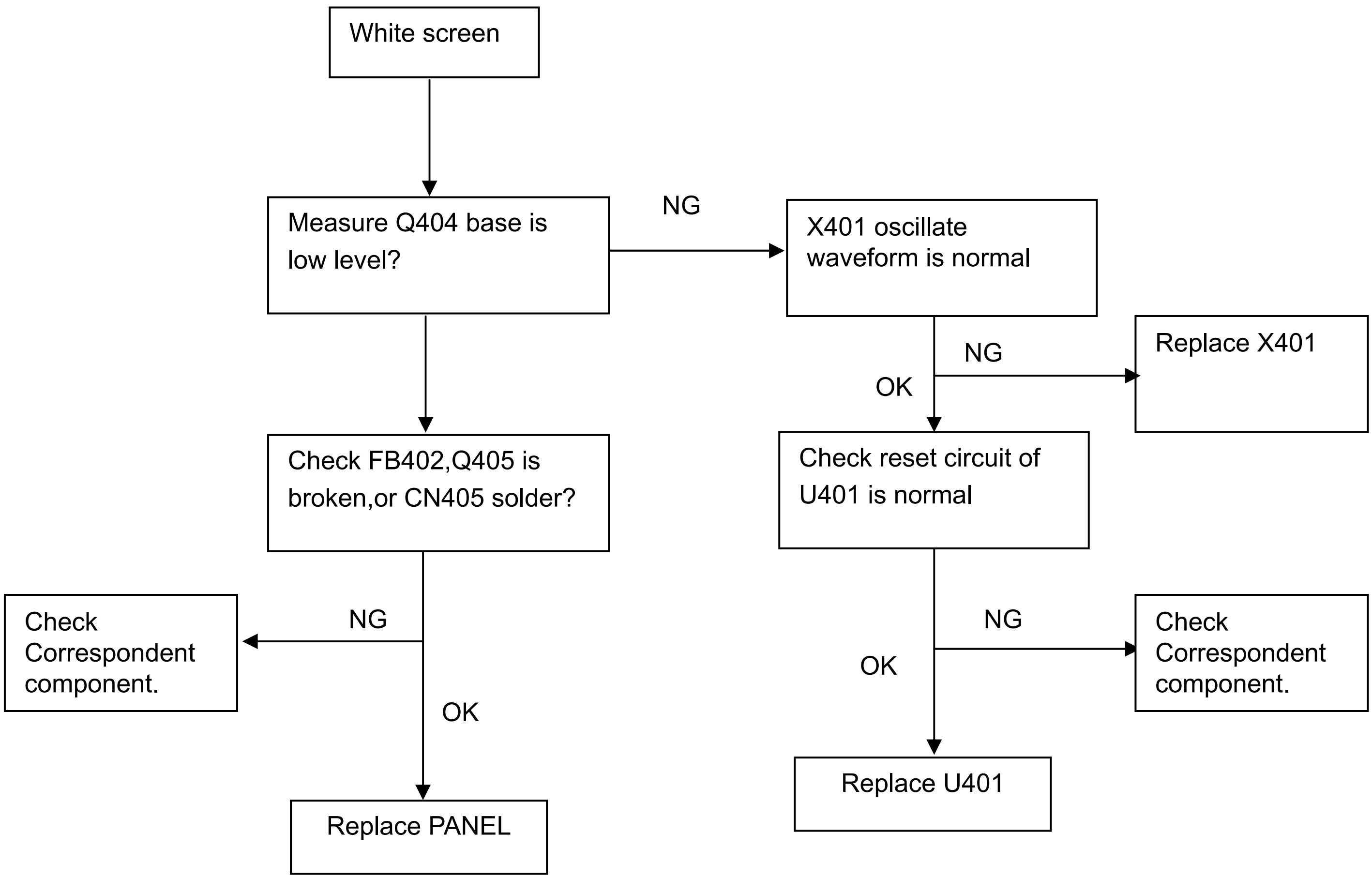
No Power



No Picture

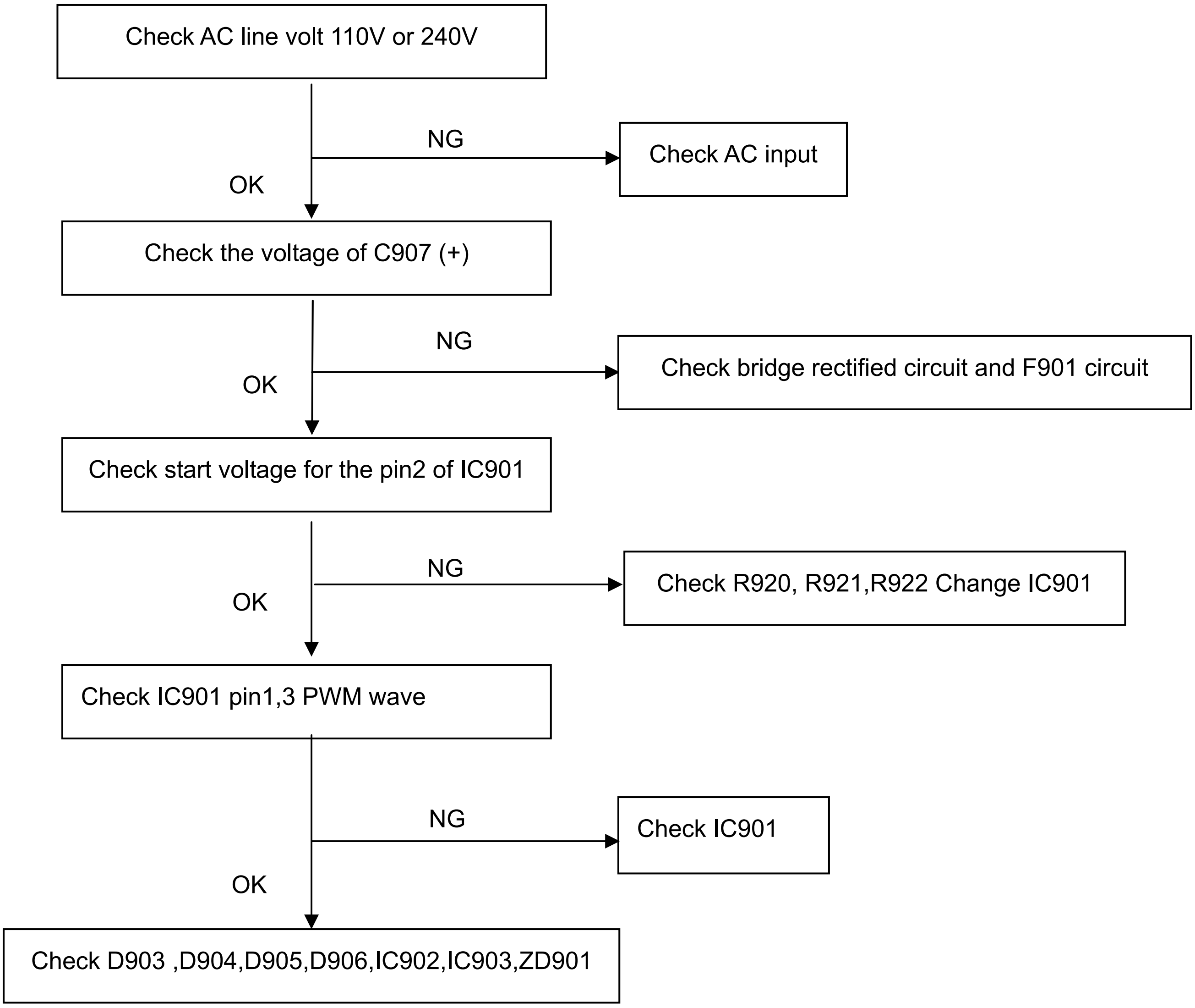

No picture
Measure C423(+)=1.8V,
U404 Vout=3.3V
NG
Replace CN404,U404
OK
X401 oscillate waveforms are normal
NG
Replace X401
OK
Check if the sync signal from computer is output and video cable is connected normally
NG
Input the sync signal of computer, or change the cable
OK
Replace U401

White Screen



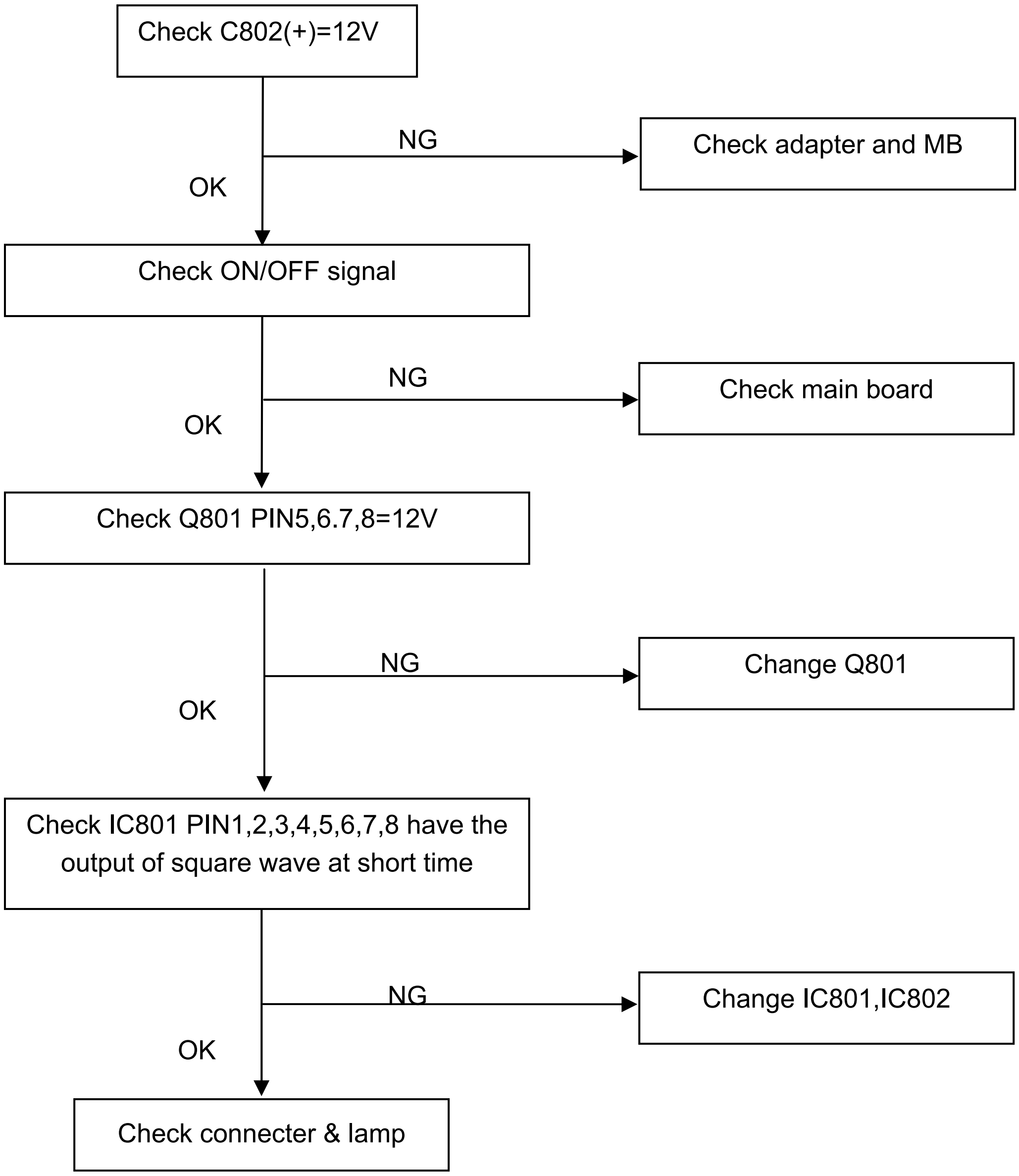
9.2.2 Power Board

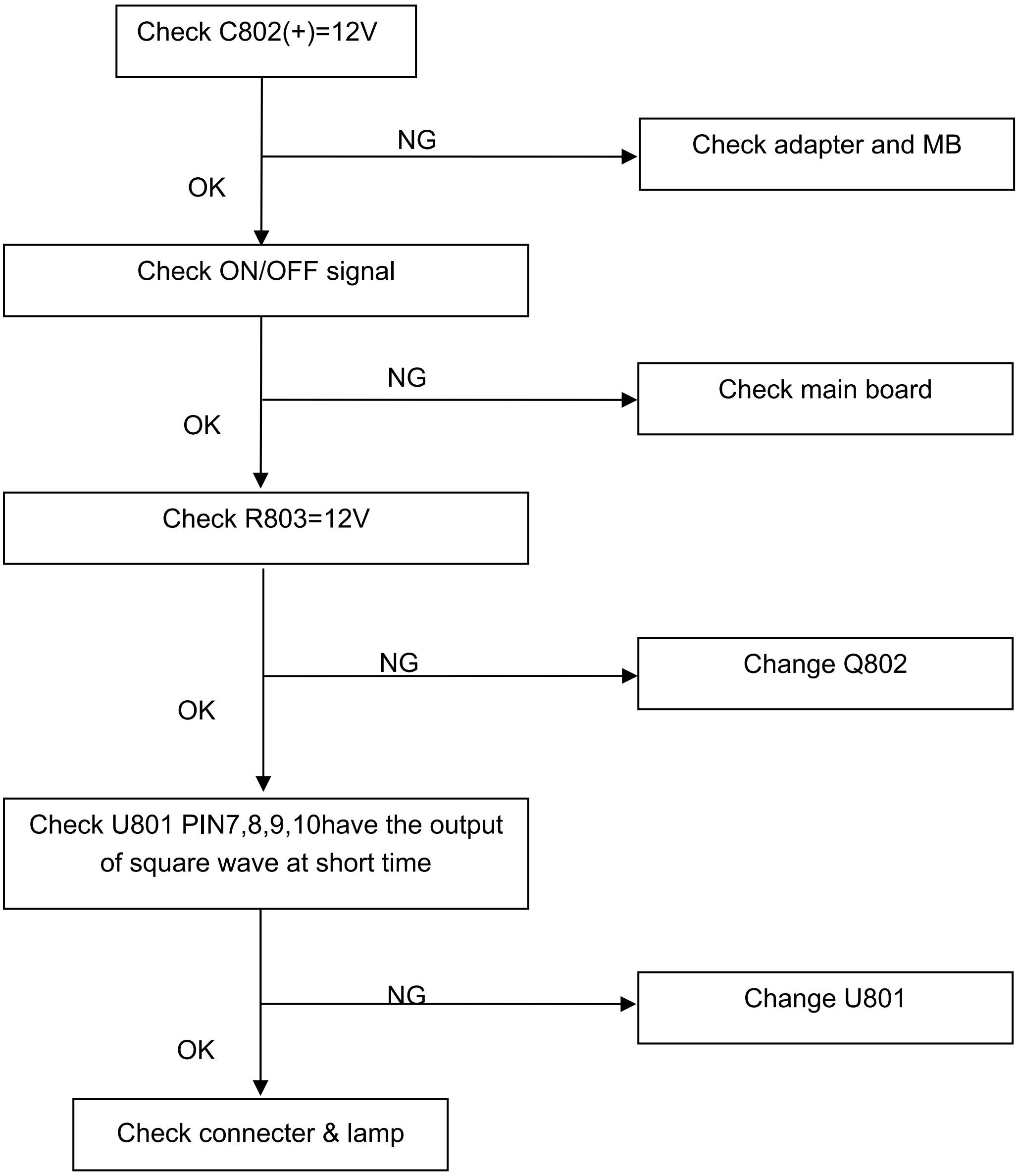
1) No power



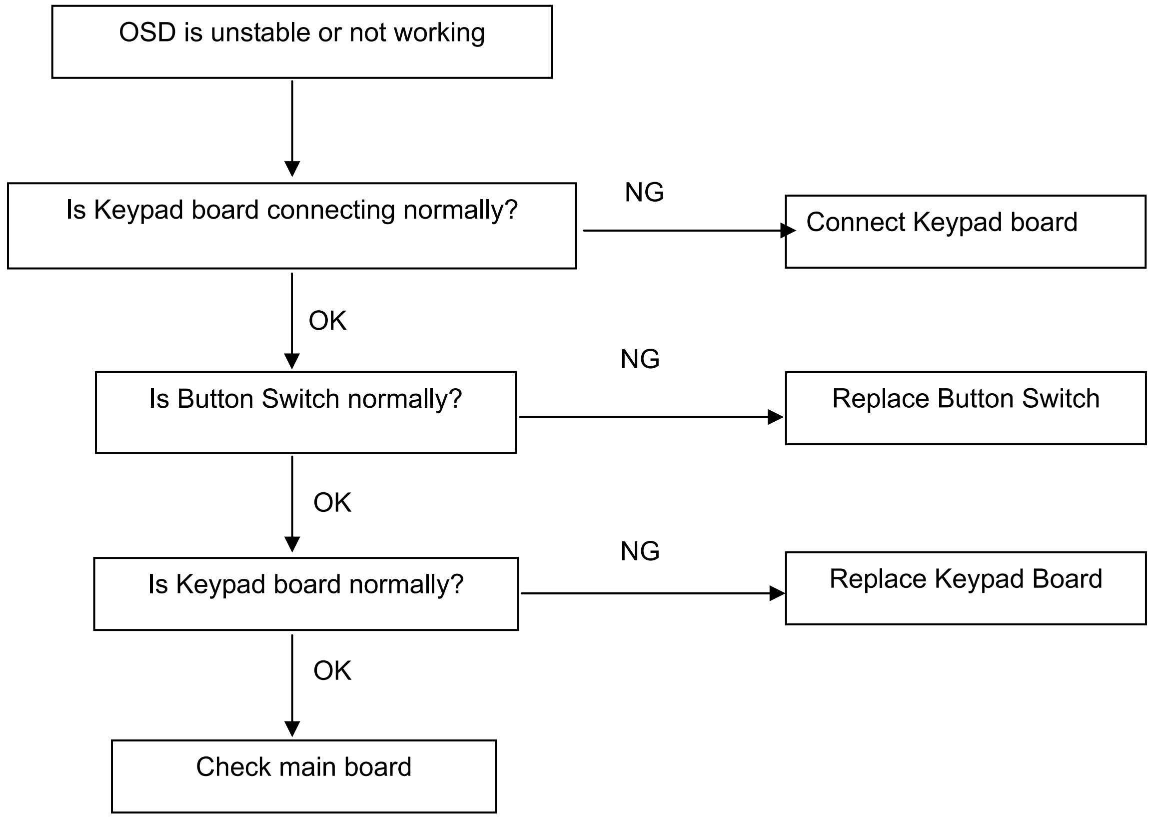
2.) No Backlight

715G3823P01000004S




Check C802(+)=12V
NG
Check adapter and MB
OK
Check ON/OFF signal
NG
Check main board
OK
Check R803=12V
NG
Change Q802
OK
Check U801 PIN7,8,9,10have the output of square wave at short time
NG
Change U801
OK
Check connecter & lamp

9.2.3 Key Board



10.Firmware and DDC Instruction

ISP & DDC writing SOP
Please land ftp://cs.tpv.com.cn/ to load relevant writing SOP in the related files.

Accounts: TPVSQZ
Code: TPVZGDLSQZ20090707

11. White- Balance, Luminance Adjustment

Approximately 30 minutes should be allowed for warm up before proceeding White-Balance adjustment.

1. How to do the Chroma-7120 MEM. Channel setting

   A. Reference to chroma 7120 user guide

   B. Use “ SC” key and “ NEXT” key to modify x, y, Y value and use “ID” key to modify the

   TEXT description Following is the procedure to do white-balance adjust

2. Setting the color temp. you want

   A. MEM.CHANNEL 3 (6500K color):

   6500K color temp. parameter is x = 313 ±30, y = 329 ±30, Y = 200 cd/m^2

   B. MEM.CHANNEL 4 (7300K color):

   7300K color temp. parameter is x = 302 ±30, y = 318 ±30, Y = 180 cd/m^2,

   C. MEM.CHANNEL 9 (9300K color):

   9300K color temp. parameter is x = 283 ±30, y = 297 ±30, Y = 170 cd/m^2

   D. MEM.CHANNEL 10 (SRGB color):

   SRGB color temp. parameter is x = 313 ±30, y = 329 ±30, Y = 180 cd/m^2

3. Into Factory mode of AOC e936Swa:

   Turn off the power, then press ∧ key,∨ key and press the Power button at the same time, the next, press the Menu button, You will enter into the factory mode.

4. Bias adjustment:

   Set the **Contrast** to 50; Adjust the **Brightness** to 90.

5. Gain adjustment:

   A. Adjust Warm (6500K) color-temperature

   1. Switch the chroma-7120 to **RGB-Mode** (with press “MODE” button)
   2. Switch the MEM.channel to Channel 3 (with up or down arrow on chroma 7120)
   3. The LCD-indicator on chroma 7120 will show x = 313 ±30, y = 329 ±30, Y=200 cd/ m^2
   4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
   5. Adjust the GREEN on factory window until chroma 7120 indicator reachedthe value G=100
   6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
   7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance =100±2

   B. Adjust Normal (7300K) color-temperature

   1. Switch the chroma-7120 to **RGB-Mode** (with press “MODE” button)
   2. Switch the MEM.channel to Channel 4(with up or down arrow on chroma 7120)
   3. The LCD-indicator on chroma 7120 will show x = 302 ±30, y = 318 ±30, Y=180 cd/ m^2
   4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
   5. Adjust the GREEN on factory window until chroma 7120 indicator reachedthe value G=100
   6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100

7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance =100±2

C. Adjust Cool (9300K) color-temperature

1. Switch the Chroma-7120 to **RGB-Mode** (with press “MODE” button)
2. Switch the MEM. Channel to Channel 9 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x = 283 ±30, y = 297 ±30, Y=170 cd/m^2
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance =100±2

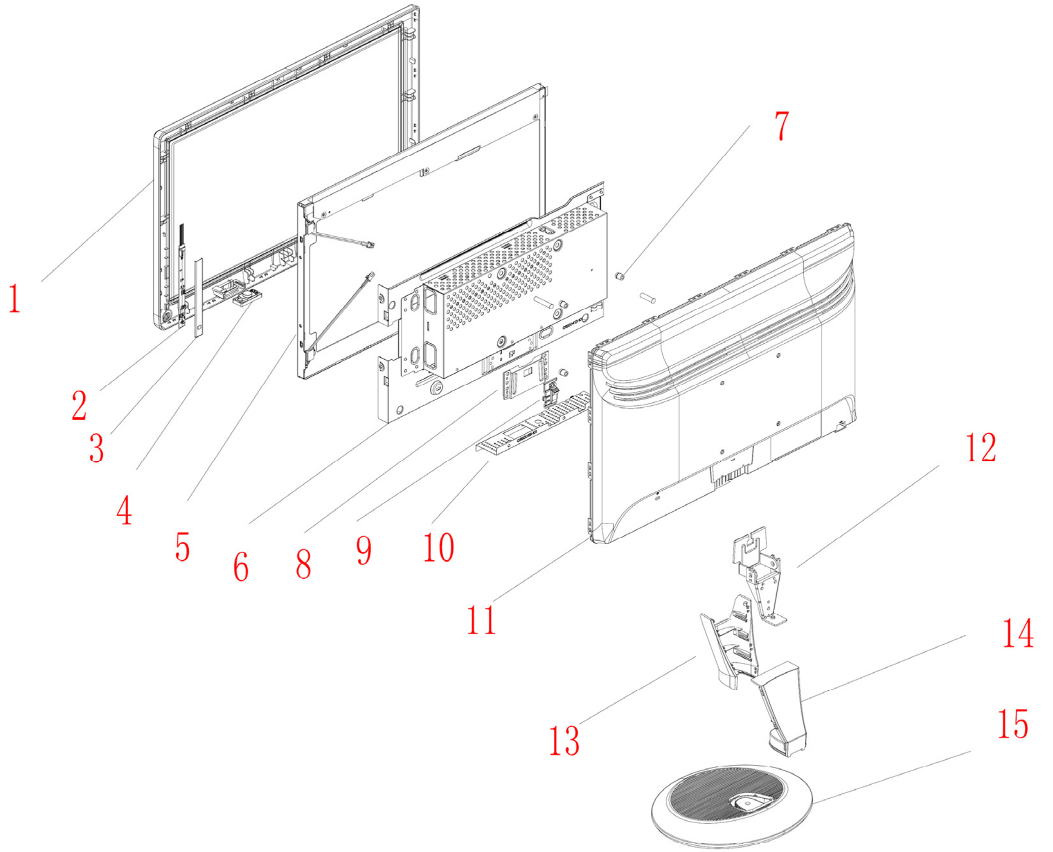
D. Adjust sRGB color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press “MODE” button)
2. Swit ch the MEM.channel to Channel 10 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x = 313 ±30, y = 329 ±30, Y= 180 cd/m^2
4. Adjust the RED3 on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reachedthe value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance =100±2

E. Turn the Power-button off to quit from factory mode.

12. Monitor Exploded View

AOC e936** Explosion Flowchart



15	Base
14	Back cover
13	Front cover
12	Hinge
11	Rear cover
10	AC shield
9	Release button
8	Accessories
7	rivet
6	Mainframe
5	Panel
4	Bugle
3	Key guide
2	Key
1	Bezel
项目	名称

13. BOM List

Note: The parts information listed below are for reference only, and are subject to change without notice. Please go to http://cs.tpv.com.cn/hello1.asp for the latest information.

T89AM5NB6WA5UNE

Location	Part No.	Description	Remark
	040G 58162435A	P/N LABEL FOR MANUAL PE BAG	
	050G 600 1 W	WHITE STRAP (1G004991)	
	052G 1186	SMALL TAPE	
	052G 1208 A	ALUMINIUM TAPE	
	052G 1211 B	Conductive Tape 85mm *40mm *0.09mm	
	052G 1211550	ALUMINUM FOIL TAPE	
	052G 2191 A	PAPER TAPE	
E07801	078G 314E01 Y	SPK 8OHM 1.5W 37*17 360+190MM	
	089G 173 56 4B	AUDIO CABLE	
E08905	089G 175 8 C	USB CABLE A+B 1.8M	
E08902	089G 715HAAE01	SIGNAL CABLE	
E08901	089G404A15N IS	POWER CORD	
E09504	095G176J 10E03	FFC CABLE 10PIN P0.5MM 175MM	
E09503	095G8014 7T588	HARNESS 7P(PLUG)-6P(C2003) 260MM	
E09501	095G8018 3TH55	HARNESS 30P-30P 140MM	
	0D1G1730 8120	SCREW	
	0M1G 130 5120	SCREW	
	705GH934024	18.5"LCD STAND-BASE ASS'Y	
E750	750GLU185X1614N000	PANEL M185XW01 V600 SH AUO	
E750	750GLU185X1624N000	PANEL M185XW01 V60A SH AUO	2nd source
	ADPC91503HD2	ADAPTER BOARD	
	H16G0001003	EVA WASHER	
	H26G 800504 2A	barcode	
	H40G 18N61525A	e936Swa EU ID LABEL	
	H40G 58161569A	USB LABEL	
	H40G 58261537A	e936Vw POP LABEL	
	H40G 58261538A	Win7 GOLD EPA LABEL	
	H40G 58261560A	e936Swa WW CARTON LABEL	
	H41G780961515A	e936Swa QSG	
	H44G8018101	EPS 936S	
	H44G8018201	EPS 936S	
	H44G8018615 5B	CARTON	
	H45G 77 6	PE PACKING	
	H45G 87 18 23	PE BAG FOR MONITOR	
	H70G200961540B	CD MANUAL	
	KEPC9HAB	KEY BOARD	
	LNPC98501AHD1	CONVERTER BOARD	
	Q15G0413902	MAIN FRAME	
	Q34G0558AEDA2B0100	bezel L185WA-936	
	Q34G0559AEDAHS0100	REAR COVER L185WA-936	
	Q45G 76 28 H A	PE BAG FOR MANUAL	
	Q45G 76 28V13 A	PE BAG	
	Q50G 4 10	TIE (Y1900221)	
	Q52G 1185 99	big carton tape for aoc	
	Q85G0118301	AOC 936S AC SHIELD	

	USB9HA3	USB BOARD	
	USB9HA4	USB BOARD	
E09508	095G8014 5DH09	HARNESS 5P(PLUG)-5P(2501) 200MM	
	0Q1G1040 8120	SCREW	
	Q01G6064 1	screw	
	Q34G0560AED 1S0100	AOC-836 stand_front	
	Q34G0561AED 1S0100	AOC-936 stand_rear	
	Q34G0562AED 1S0130	AOC-936 base	
	Q37G0133011	AOC 936S HINGE	
	756GH9CB A3008	MCU ASS'Y	
SMTC9-U402	100GAMA8014W11	MCU ASS'Y-056G1133137	
GND3	009G6005 1	GROUND TERMINAL	
GND2	009G6005 1	GROUND TERMINAL	
GND1	009G6005 1	GROUND TERMINAL	
CN602	033G3802 4	WAFER PH-4	
CN903	033G380210B Y L	CONN 2.0 10P	
	040G 45762412B	CBPC LABEL	
IC902	056G 139 7 1	IC EL817MA M-TYPE	
NR901	061G 58100 WD	RST NTCR 10 OHM +-20% 5A THINKING	
C904	063G107K2246S1	X2 CAP 0.22UF K 275VAC	
C903	065G306K3312B3	Y1 CAP 330PF K 250VAC CD	
C902	065G306K3312B3	Y1 CAP 330PF K 250VAC CD	
C900	065G306M1022BP	1000PF Y1.CAP	
C918	067G 3151007KV	ELCAP 10UF M 50V 105℃ KINGNICHI	
C907A	067G 40Z10115L	EC 100uF 450V M 18*36mm	
C912	067G215D6814LV	LOW ESR EC 680uF 25V M 10*20mm	
C914	067G215S4713LV	LOW ESR EC 470uF 16V M 10*12.5mm	
L901	073G 174 65 H2	LINE FILTER 30mH MIN	
L903	073G 253 91 H	CHOKE COIL	
L902	073G 253 91 H	CHOKE COIL	
T901	080GL19P 1 H	POWER X'FMR 1.1mH 10%	
CN901	087G 501 32 DL	AC SOCKET DIP 3PIN+2PIN GROUND	
CN601	088G 30214K DC	PHONE JACK 5PIN +开口向下弹片	
D904	093G 60923	DIODE SR504-30 DO-201AD	
D906	093G 60923	DIODE SR504-30 DO-201AD	
D903	093G 60924	DIODE SR510-22 DO-201AD	
D905	093G 60924	DIODE SR510-22 DO-201AD	
CN902	095G 825 9W904	HARNESS 9P-9P 120mm	
E09502	095G801410WE05	HARNESS 10P-10P 140MM	
	705GQ956024	IC901 ASS'Y	
	AD91503HD1SMT	ADAPTER BOARD FOR SMT	
HS4	Q90G6295 3	HEAT SINK	
IC601	056G 616 51	IC APA2071JI-TUG 3.1W DIP-16	
BD901	093G 50460 28	BRIDGE DIODE KBP208G LITEON	
CN409	033G3802 7B Y W	WAFER	
CN404	033G3802 9B Y W	WAFER	
CN405	033G8027 30 H	WAFER 30P 2.0MM RIGHT ANGLE	
	040G 45762412B	CBPC LABEL	
R480	061G152M22964L	RST MOFR 2.2ohm +-5% 2WS	
CN101	088G 35315F XH	D-SUB 15PIN VERTICAL CONN WITH SCREW	
X401	093G 2253B J	NXS14.31818AC32F-KAB10	

E09513	095G8022 6X504	HARNESS 6P-6P 200MM	
	A33G0564 2 1L0100	Key-Guide	
	Q52G 3 75	3M DOUBLE FACE TAPE	
	040G 45762412B	CBPC LABEL	
C802	067G 4151017LV	EC 100uF 20% 50V RZY 8*11.5	
C804	067G 415479 9K	EC 4.7UF 20% 100V ED 8*12	
	LN98501AHD1SMT	CONVERTER BOARD FOR SMT	
CN511	033G3802 5 BH L	CONNECTOR 5PIN	
CN512	088G 352 2 XH	USB CONN	
	715G2663 2	USB BOARD PCB	
CN501	033G3802 5B Y L	CONN 2.0 5P	
CN502	088G 351 2B XH	USB CONN	
IC901	056G 581 20	IC TOP255EN eSIP-7C	
	0M1G 930 8120	SCREW	
	Q11G0026 1	cable clip	
HS1	Q90G6263 6	HEAT SINK	
Q608	057G 417 18 T	PMBT3904 SOT-23	
Q607	057G 417517	Tra LMBT3906LT1G -200mA/-40V SOT-23 LRC	
R623	061G0603000 JF	RST CHIPR MAX 0R05 1/10W FENGHUA	
R628	061G0603000 JF	RST CHIPR MAX 0R05 1/10W FENGHUA	
R917	061G06031001FT	RST CHIP 1K 1/10W 1%	
R913	061G06031002FT	RST CHIP 10K 1/10W 1%	
R601	061G0603103 JF	RST CHIPR 10K OHM +-5% 1/10W FENGHUA	
R603	061G0603103 JF	RST CHIPR 10K OHM +-5% 1/10W FENGHUA	
R609	061G0603103 JF	RST CHIPR 10K OHM +-5% 1/10W FENGHUA	
R610	061G0603103 JF	RST CHIPR 10K OHM +-5% 1/10W FENGHUA	
R613	061G0603103 JF	RST CHIPR 10K OHM +-5% 1/10W FENGHUA	
R614	061G0603103 JF	RST CHIPR 10K OHM +-5% 1/10W FENGHUA	
R602	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R604	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R605	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R912	061G0603103 JW	RST CHIP 10K 1/10W 5% WALSIN	
R606	061G0603203 JF	RST CHIPR 20K OHM +-5% 1/10W FENGHUA	
R607	061G0603203 JF	RST CHIPR 20K OHM +-5% 1/10W FENGHUA	
R916	061G0603471 JT	RST CHIPR 470OHM +-5% 1/10W TZAI YUAN	
R615	061G0603472 JF	RST CHIPR 4.7KOHM +-5% 1/10W FENGHUA	
R611	061G0603563 JF	RST CHIPR 56KOHM 5% 1/10W FENGHUA	
R612	061G0603751 JF	RST CHIPR 750OHM +- 5% 1/10W FENGHUA	
R915	061G06039311FT	RST CHIPR 9.31k 1% 1/10W	
R608	061G0805000 JF	RST CHIPR 0 OHM +-5% 1/8W FENGHUA	
R923	061G0805103 JT	RST CHIPR 10K OHM +- 5% 1/8W TZAI YUAN	
R903	061G08051102FT	RST CHIP 11K 1/8W 1%	
R924	061G0805689 JT	RST CHIPR 6.8R +-5% 1/8W TZAI YUAN	
R925	061G08058202FT	RST CHIPR 82K +-1% 1/8W TZAI YUAN	
RJ601	061G1206000 JT	RST CHIPR MAX0R05 1/4W TZAI YUAN	
R927	061G12060004JT	RST CHIP MAX 0R05 1/4W TZAI YUAN	
F601	061G12060004JT	RST CHIP MAX 0R05 1/4W TZAI YUAN	
R910	061G1206101 JT	RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN	
R926	061G1206229 JT	RST CHIPR 2R2 +-5% 1/4W TZAI YUAN	
R909	061G1206300 JT	RST CHIPR 30 OHM 1/4W TZAI YUAN	
R908	061G1206300 JT	RST CHIPR 30 OHM 1/4W TZAI YUAN	

R907	061G1206300 JT	RST CHIPR 30 OHM 1/4W TZAI YUAN	
R906	061G1206300 JT	RST CHIPR 30 OHM 1/4W TZAI YUAN	
R905	061G1206300 JT	RST CHIPR 30 OHM 1/4W TZAI YUAN	
R904	061G1206300 JT	RST CHIPR 30 OHM 1/4W TZAI YUAN	
R920	061G1206335 JT	RST CHIPR 3.3 MOHM +-5% 1/4W TZAI YUAN	
R921	061G1206335 JT	RST CHIPR 3.3 MOHM +-5% 1/4W TZAI YUAN	
R922	061G1206335 JT	RST CHIPR 3.3 MOHM +-5% 1/4W TZAI YUAN	
R900	061G1206624 JT	RST CHIPR 620 KOHM +-5% 1/4W TZAI YUAN	
R901	061G1206624 JT	RST CHIPR 620 KOHM +-5% 1/4W TZAI YUAN	
R902	061G1206624 JT	RST CHIPR 620 KOHM +-5% 1/4W TZAI YUAN	
C611	065G060310131J F	CAP CHIP 0603 100PF J 50V NPO	
C610	065G060310131J F	CAP CHIP 0603 100PF J 50V NPO	
C916	065G060310312K F	CAP CHIP 0603 10NF K 16V X7R	
C603	065G060310432K F	CAP CHIP 0603 0.1UF K 50V X7R	
C614	065G060310432K F	CAP CHIP 0603 0.1UF K 50V X7R	
C601	065G060347412K T	CAP CHIP 0603 0.47UF K 16V X7R	
C606	065G060347412K T	CAP CHIP 0603 0.47UF K 16V X7R	
C905	065G080510432K F	CAP CHIP 0805 0.1UF K 50V X7R	
C915	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C917	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C609	065G080510522K T	CAP CHIP 0805 1UF K 25V X7R	
C608	065G080522522K T	CAP CHIP 0805 2.2UF K 25V X7R	
C901	065G080582031J F	CAP CHIP 0805 82PF J 50V NPO	
C910	065G1206222B2K T	CAP CHIP 1206 2200PF K 630V X7R	
C911	065G1206222B2K T	CAP CHIP 1206 2200PF K 630V X7R	
C919	065G1206222B2K T	CAP CHIP 1206 2200PF K 630V X7R	
C920	065G1206222B2K T	CAP CHIP 1206 2200PF K 630V X7R	
	AD91503HD1AI	ADAPTER BOARD FOR AI	
C410	067G 2151007RT	LOW E.S.R 10UF +/-20% 50V	
C423	067G 305101 4T	100UF +-20% 25V	
C421	067G 305101 4T	100UF +-20% 25V	
C427	067G 305101 4T	100UF +-20% 25V	
C426	067G 305101 4T	100UF +-20% 25V	
U401	056G 562557	IC TSUM1PFR-LF	
U404	056G 563 52	IC AP1117D33G-13 TO252-3L DIODES	
U102	056G 662502	IC ESD AZC199-04S SOT23-6L	
U103	056G 662502	IC ESD AZC199-04S SOT23-6L	
U405	056G1133 34	M24C02-WMN6TP	
U402	056G1133137	IC MX25L2026MI-12G SOP-8	
Q404	057G 417 6	PMBS3906/PHILIPS-SMT(06)	
Q409	057G 417 22 T	TRA KN2907AS -60V/-0.6A SOT-23	
Q410	057G 417 22 T	TRA KN2907AS -60V/-0.6A SOT-23	
Q402	057G 417517	Tra LMBT3906LT1G -200mA/-40V SOT-23 LRC	
Q403	057G 417517	Tra LMBT3906LT1G -200mA/-40V SOT-23 LRC	
Q406	057G 417518	TRA LMBT3904LT1G 200mA/40V SOT-23 LRC	
Q407	057G 417518	TRA LMBT3904LT1G 200mA/40V SOT-23 LRC	
Q408	057G 417518	TRA LMBT3904LT1G 200mA/40V SOT-23 LRC	
Q405	057G 763 1	A03401 SOT23 BY AOS(A1)	
R485	061G0402000	RST CHIP MAX 0R05 1/16W	
R483	061G0402000	RST CHIP MAX 0R05 1/16W	
R482	061G0402000	RST CHIP MAX 0R05 1/16W	

R471	061G0402000	RST CHIP MAX 0R05 1/16W	
R457	061G0402000	RST CHIP MAX 0R05 1/16W	
R456	061G0402000	RST CHIP MAX 0R05 1/16W	
R402	061G0402000	RST CHIP MAX 0R05 1/16W	
R401	061G0402000	RST CHIP MAX 0R05 1/16W	
R419	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R418	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R442	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R413	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R412	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R411	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R405	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R117	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R102	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R103	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R104	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R108	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R111	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R114	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R115	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R410	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W	
R441	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W	
R469	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W	
R447	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R439	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R437	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R433	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R417	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R414	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R408	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R407	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R118	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R436	061G0402104	RST CHIPR 100 KOHM +-5% 1/16W	
R468	061G0402201	RST CHIP 200R 1/16W 5%	
R105	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W	
R106	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W	
R466	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W	
R109	061G0402390 0F	RST CHIP 390R 1/16W 1%	
R403	061G0402390 0F	RST CHIP 390R 1/16W 1%	
R428	061G0402392	RST CHIP 3.9K 1/16W 5%	
R427	061G0402392	RST CHIP 3.9K 1/16W 5%	
R475	061G0402470	RST CHIPR 47 OHM +-5% 1/16W	
R476	061G0402470	RST CHIPR 47 OHM +-5% 1/16W	
R123	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R435	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R440	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R472	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R473	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R474	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R448	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R116	061G0402750	RST CHIPR 75 OHM +-5% 1/16W	

R112	061G0402750	RST CHIPR 75 OHM +-5% 1/16W	
R107	061G0402750	RST CHIPR 75 OHM +-5% 1/16W	
R101	061G0603000	RST CHIP MAX 0R05 1/10W	
R467	061G0603000	RST CHIP MAX 0R05 1/10W	
R470	061G0603000	RST CHIP MAX 0R05 1/10W	
R434	061G1206331	RST CHIPR 330 OHM +-5% 1/4W	
D402	061G2010000	RST CHIP MAX 0 OHM 3/4W	
C432	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C428	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C422	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C420	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C419	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C416	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C407	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C406	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C404	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C403	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C401	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C433	065G0402105 A5	CAP 0402 1UF K 10V X5R	
C103	065G0402220 31	CHIP 22PF 50V NPO	
C102	065G0402220 31	CHIP 22PF 50V NPO	
C408	065G0402224 17	CAP CER 0.22UF -20%-80%	
C434	065G0402224 17	CAP CER 0.22UF -20%-80%	
C411	065G0402470 31	MLCC 0402 CAP 47PF J 50V NPO	
C412	065G0402470 31	MLCC 0402 CAP 47PF J 50V NPO	
C113	065G0402473 12	CHIP 0.047uF 16V X7R	
C110	065G0402473 12	CHIP 0.047uF 16V X7R	
C109	065G0402473 12	CHIP 0.047uF 16V X7R	
C107	065G0402473 12	CHIP 0.047uF 16V X7R	
C106	065G0402473 12	CHIP 0.047uF 16V X7R	
C105	065G0402473 12	CHIP 0.047uF 16V X7R	
C101	065G0402473 12	CHIP 0.047uF 16V X7R	
C104	065G0402509 31	CHIP 5pF 50V NPO	
C108	065G0402509 31	CHIP 5pF 50V NPO	
C111	065G0402509 31	CHIP 5pF 50V NPO	
FB405	071G 56G151 A	TB160808G151	
FB402	071G 56K121 M	CHIP BEAD	
FB401	071G 56V301 B	CHIP BEAD FCM2012VF-301T07 bullwill	
FB101	071G 59K190 B	19 OHM BEAD	
FB102	071G 59K190 B	19 OHM BEAD	
FB103	071G 59K190 B	19 OHM BEAD	
D403	093G 64 42 L	DIODE LBAV70LT1G SOT-23 LRC	
ZD103	093G 39GA01 T	RLZ5.6B	
ZD104	093G 39GA01 T	RLZ5.6B	
	715G3244 1	MAIN BOARD PCB	
CN001	033G8034 6H H X	WAFER 1.0mm SMT 6P	
U001	056G 665 43	IC CY8C20180-LDX2I QFN-16(COL)	
R012	061G0603000	RST CHIP MAX 0R05 1/10W	
R009	061G0603000	RST CHIP MAX 0R05 1/10W	
R008	061G0603000	RST CHIP MAX 0R05 1/10W	
R001	061G0603000	RST CHIP MAX 0R05 1/10W	

R002	061G0603101	RST CHIPR 100 OHM +-5% 1/10W	
R005	061G0603561	RST CHIPR 560 OHM +-5% 1/10W	
R006	061G0603561	RST CHIPR 560 OHM +-5% 1/10W	
R007	061G0603561	RST CHIPR 560 OHM +-5% 1/10W	
R004	061G0603561	RST CHIPR 560 OHM +-5% 1/10W	
C001	065G0603102 31	CHIP 1000PF 50V NPO	
C002	065G0603225 A5	CHIP 2.2uF 10V X5R	
LED001	081G15BY 2 GP	LED GPTD1204BOC1-A GP	
ZD004	093G 39S 34 T	UDZSNP5.6B ROHM	
ZD005	093G 39S 34 T	UDZSNP5.6B ROHM	
	715G3371 2	KEY BOARD PCB	
CN802	033G801910Y H	FPC CONN. 0.5mm SMT 10P	
CN801	033G803210F HR	CONNECTOR	
IC801	056G 379167	IC TA9690GN-A-0-TR SOP-24	
Q801	057G 763 92	FET P8008HV 4A/80V SOP-8	
R844	061G0603100 JT	RST CHIP 10R 1/10W 5% TZAI YUAN	
R807	061G0603100 JT	RST CHIP 10R 1/10W 5% TZAI YUAN	
R814	061G0603100 JT	RST CHIP 10R 1/10W 5% TZAI YUAN	
R812	061G0603101 JT	RST CHIP 100R 1/10W 5% TZAI YUAN	
R810	061G0603102 JT	RST CHIP 1K 1/10W 5% TZAI YUAN	
R806	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R813	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R809	061G0603104 JT	RST CHIP 100K 1/10W 5% TZAI YUAN	
R822	061G0603105 JT	RST CHIP 1M 1/10W 5% TZAI YUAN	
R826	061G0603109 JT	RST CHIP 1R 1/10W 5% TZAI YUAN	
R827	061G0603109 JT	RST CHIP 1R 1/10W 5% TZAI YUAN	
R828	061G0603109 JT	RST CHIP 1R 1/10W 5% TZAI YUAN	
R829	061G0603109 JT	RST CHIP 1R 1/10W 5% TZAI YUAN	
R831	061G0603109 JT	RST CHIP 1R 1/10W 5% TZAI YUAN	
R833	061G0603109 JT	RST CHIP 1R 1/10W 5% TZAI YUAN	
R805	061G0603124 JT	RST CHIP 120K 1/10W 5% TZAI YUAN	
R804	061G06033002FT	RST CHIP 30K 1/10W 1%	
R823	061G0603333 JT	RST CHIP 33K 1/10W 5% TZAI YUAN	
R824	061G06034302FT	RST CHIPR 43KOHM 1% 1/10W TZAI YUAN	
R825	061G1206000 JT	RST CHIPR MAX0R05 1/4W TZAI YUAN	
F801	061G12060004JT	RST CHIP MAX 0R05 1/4W TZAI YUAN	
R801	061G1206308 JT	RST CHIPR 0.3 OHM +-5% 1/4W	
R802	061G1206308 JT	RST CHIPR 0.3 OHM +-5% 1/4W	
C816	065G060310432K A	CAP CHIP 0603 100nF K 50V X7R	
C805	065G060347412K T	CAP CHIP 0603 0.47UF K 16V X7R	
C815	065G080510432K A	CAP CHIP 0805 100nF K 50V X7R	
C814	065G080510432K A	CAP CHIP 0805 100nF K 50V X7R	
C801	065G080510432K A	CAP CHIP 0805 100nF K 50V X7R	
C807	065G080522512K A	CAP CHIP 0805 2.2uF K 16V X7R	
C806	065G080522525K T	CAP CHIP 0805 2.2uF K 25V X5R	
L801	073G253S 80 DN	SMD CHOKE 22uH 2.16A LZ.3A220.A1P HF	
ZD801	093G 60S 31 T	DIODE B360B 3A/60V SMB	
E715	715G3823P01000004S	CONVERTER BOARD PCB	
C503	065G0603104 12	CER2 0603 X7R 16V 100N P	
C501	065G0603509 31	CHIP 5PF +-0.5PF 50V NPO	
C502	065G0603509 31	CHIP 5PF +-0.5PF 50V NPO	

FB501	071G 56K121 M	CHIP BEAD	
	715G3501 2	USB BOARD PCB	
CN901	006G 31500	EYELET	
IC903	056G 158 10 T	IC AS431AZTR-E1 TO-92	
Q901	057G 530503 T	2SD1207T	
R919	061G152M10452T SY	RST MOFR 100KOHM +-5% 2WS FUTABA	
R918	061G152M25152T SY	RST MOFR 250 OHM +-5% 2WS	
C906	065G 2K152 2T6921	CAP CER 1500pF K 2KV Y5P	
C913	067G 2046812KT	CS CAP 680uF 10V 8*11 mm	
C908	067G 2154707NT	KY50VB47M-TP5 6.3*11	
C604	067G215Y1014KT	EC CAP.105 度	
C613	067G215Y1014KT	EC CAP.105 度	
FB902	071G 55 9 T	FERRITE BEAD	
FB602	071G 55 29	FERRITE BEAD	
FB603	071G 55 29	FERRITE BEAD	
F901	084G 55 5	FUSE 2.50A 250V	
F902	084G 56 4W	FUSE 4.0A 250V	
ZD902	093G 3916752T	MTZJ T-72 16B	
ZD901	093G 39A0852T	GDZJ18B	
D902	093G 6026T52T	RECTIFIER DIODE FR107	
D901	093G 6038T52T	FR103	
D601	093G 64 1152T	1N4148	
J906	095G 90 23	JUMPER WIRE	
J611	095G 90 23	JUMPER WIRE	
J612	095G 90 23	JUMPER WIRE	
J610	095G 90 23	JUMPER WIRE	
J606	095G 90 23	JUMPER WIRE	
J607	095G 90 23	JUMPER WIRE	
J604	095G 90 23	JUMPER WIRE	
J603	095G 90 23	JUMPER WIRE	
J600	095G 90 23	JUMPER WIRE	
J614	095G 90 23	JUMPER WIRE	
J602	095G 90 23	JUMPER WIRE	
J905	095G 90 23	JUMPER WIRE	
J617	095G 90 23	JUMPER WIRE	
J616	095G 90 23	JUMPER WIRE	
J615	095G 90 23	JUMPER WIRE	
J609	095G 90 23	JUMPER WIRE	
J608	095G 90 23	JUMPER WIRE	
J900	095G 90 23	JUMPER WIRE	
J901	095G 90 23	JUMPER WIRE	
J601	095G 90 23	JUMPER WIRE	
J902	095G 90 23	JUMPER WIRE	
J903	095G 90 23	JUMPER WIRE	
J904	095G 90 23	JUMPER WIRE	
	715G3189P01LED001S	POWER BOARD PCB	

T892M5NB6WA1UNE

Location	Part No.	Description	Remark
	040G 58162435A	P/N LABEL FOR MANUAL PE BAG	
	050G 600 1 W	WHITE STRAP (1G004991)	
	052G 1186	SMALL TAPE	
	052G 1208 A	ALUMINIUM TAPE	
	052G 1211 B	Conductive Tape 85mm *40mm *0.09mm	
	052G 1211550	ALUMINUM FOIL TAPE	
	052G 2191 A	PAPER TAPE	
E07801	078G 314E01 Y	SPK 8OHM 1.5W 37*17 360+190MM	
	089G 173 56 4B	AUDIO CABLE	
E08905	089G 175 8 G	FQE41177F USB CABLE 1800mm A+B	
E08902	089G 715HAAE01	SIGNAL CABLE	
E08901	089G404A15N IS	POWER CORD	
E09508	095G8014 5WH09	HARNESS 5P(PLUG)-5P(2501) 200MM	
E09503	095G8014 7T588	HARNESS 7P(PLUG)-6P(C2003) 260MM	
E09501	095G8018 3XH55	HARNESS 30P-30P 140MM	
	0D1G1730 8120	SCREW	
	0M1G 130 5120	SCREW	
	705GH934024	18.5"LCD STAND-BASE ASS'Y	
E750	750GLV185B1141N000	PANEL TPM185B1-L01 C1D FQ TPV	
	ADPC91503HD2	ADAPTER BOARD	
	H16G0001003	EVA WASHER	
	H26G 800504 2A	barcode	
	H40G 18N61525A	e936Swa EU ID LABEL	
	H40G 58161569A	USB LABEL	
	H40G 58261537A	e936Vw POP LABEL	
	H40G 58261538A	Win7 GOLD EPA LABEL	
	H40G 58261560A	e936Swa WW CARTON LABEL	
	H41G780961515A	e936Swa QSG	
	H44G8018101	EPS 936S	
	H44G8018201	EPS 936S	
	H44G8018615 5B	CARTON	
	H45G 77 6	PE PACKING	
	H45G 87 18 23	PE BAG FOR MONITOR	
	H70G200961540B	CD MANUAL	
	KEPC9HAB	KEY BOARD	
	LNPC98302HD1	CONVERTER BOARD	
	Q15G0413702	mainframe	
	Q34G0558AEDA2B0100	bezel L185WA-936	
	Q34G0559AEDAFS0100	rearcover L185WA-936	
	Q45G 76 28 H A	PE BAG FOR MANUAL	
	Q45G 76 28V13 A	PE BAG	
	Q50G 4 10	TIE (Y1900221)	
	Q52G 1185 99	big carton tape for aoc	
	Q85G0118301	AOC 936S AC SHIELD	
	USB9HA3	USB BOARD	
	USB9HA4	USB BOARD	
	0Q1G1040 8120	SCREW	
	Q01G6064 1	screw	
	Q34G0560AED 1S0100	AOC-836 stand_front	

	Q34G0561AED 1S0100	AOC-936 stand_rear	
	Q34G0562AED 1S0130	AOC-936 base	
	Q37G0133011	AOC 936S HINGE	
	756GH9CB A1079	MCU ASS'Y	
SMTCR-U402	100GAMV8001W11	MCU ASS'Y-CBPC9M5A1H4	
GND3	009G6005 1	GROUND TERMINAL	
GND2	009G6005 1	GROUND TERMINAL	
GND1	009G6005 1	GROUND TERMINAL	
CN602	033G3802 4	WAFER PH-4	
CN903	033G380210B Y L	CONN 2.0 10P	
	040G 45762412B	CBPC LABEL	
IC902	056G 139 7 1	IC EL817MA M-TYPE	
NR901	061G 58100 WD	RST NTCR 10 OHM +-20% 5A THINKING	
C904	063G107K2246S1	X2 CAP 0.22UF K 275VAC	
C903	065G306K3312B3	Y1 CAP 330PF K 250VAC CD	
C902	065G306K3312B3	Y1 CAP 330PF K 250VAC CD	
C900	065G306M1022BP	1000PF Y1.CAP	
C918	067G 3151007KV	ELCAP 10UF M 50V 105℃ KINGNICHI	
C907A	067G 40Z10115L	EC 100uF 450V M 18*36mm	
C912	067G215D6814LV	LOW ESR EC 680uF 25V M 10*20mm	
C914	067G215S4713LV	LOW ESR EC 470uF 16V M 10*12.5mm	
L901	073G 174 65 H2	LINE FILTER 30mH MIN	
L902	073G 253 91 H	CHOKE COIL	
L903	073G 253 91 H	CHOKE COIL	
T901	080GL19P 1 H	POWER X'FMR 1.1mH 10%	
CN901	087G 501 32 DL	AC SOCKET DIP 3PIN+2PIN GROUND	
CN601	088G 30214K DC	PHONE JACK 5PIN +开口向下弹片	
D906	093G 60923	DIODE SR504-30 DO-201AD	
D904	093G 60923	DIODE SR504-30 DO-201AD	
D905	093G 60924	DIODE SR510-22 DO-201AD	
D903	093G 60924	DIODE SR510-22 DO-201AD	
CN902	095G 825 9W904	HARNESS 9P-9P 120mm	
E09502	095G801410WE05	HARNESS 10P-10P 140MM	
	705GQ956024	IC901 ASS'Y	
	AD91503HD1SMT	ADAPTER BOARD FOR SMT	
HS4	Q90G6295 3	HEAT SINK	
IC601	056G 616 51	IC APA2071JI-TUG 3.1W DIP-16	
BD901	093G 50460 28	BRIDGE DIODE KBP208G LITEON	
CN409	033G3802 7B Y W	WAFER	
CN404	033G3802 9B Y W	WAFER	
CN405	033G8027 30 H	WAFER 30P 2.0MM RIGHT ANGLE	
	040G 45762412B	CBPC LABEL	
R480	061G152M22964L	RST MOFR 2.2ohm +-5% 2WS	
CN101	088G 35315F XH	D-SUB 15PIN VERTICAL CONN WITH SCREW	
X401	093G 2253B J	NXS14.31818AC32F-KAB10	
E09513	095G8022 6X504	HARNESS 6P-6P 200MM	
	A33G0564 2 1L0100	Key-Guide	
	Q52G 3 75	3M DOUBLE FACE TAPE	
	040G 45762412B	CBPC LABEL	
C814	067G 4151017LV	EC 100uF 20% 50V RZY 8*11.5	
C802	067G 4151017LV	EC 100uF 20% 50V RZY 8*11.5	

	LN98302HD1SMT	CONVERTER BOARD FOR SMT	
CN511	033G3802 5 BH L	CONNECTOR 5PIN	
CN512	088G 352 2 XH	USB CONN	
	715G2663 2	USB BOARD PCB	
CN501	033G3802 5B Y L	CONN 2.0 5P	
CN502	088G 351 2B XH	USB CONN	
IC901	056G 581 20	IC TOP255EN eSIP-7C	
	0M1G 930 8120	SCREW	
	Q11G0026 1	cable clip	
HS1	Q90G6263 6	HEAT SINK	
Q608	057G 417 18 T	PMBT3904 SOT-23	
Q607	057G 417517	Tra LMBT3906LT1G -200mA/-40V SOT-23 LRC	
R623	061G0603000 JF	RST CHIPR MAX 0R05 1/10W FENGHUA	
R628	061G0603000 JF	RST CHIPR MAX 0R05 1/10W FENGHUA	
R917	061G06031001FT	RST CHIP 1K 1/10W 1%	
R913	061G06031002FT	RST CHIP 10K 1/10W 1%	
R601	061G0603103 JF	RST CHIPR 10K OHM +-5% 1/10W FENGHUA	
R603	061G0603103 JF	RST CHIPR 10K OHM +-5% 1/10W FENGHUA	
R609	061G0603103 JF	RST CHIPR 10K OHM +-5% 1/10W FENGHUA	
R610	061G0603103 JF	RST CHIPR 10K OHM +-5% 1/10W FENGHUA	
R613	061G0603103 JF	RST CHIPR 10K OHM +-5% 1/10W FENGHUA	
R614	061G0603103 JF	RST CHIPR 10K OHM +-5% 1/10W FENGHUA	
R602	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R604	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R605	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R912	061G0603103 JW	RST CHIP 10K 1/10W 5% WALSIN	
R606	061G0603203 JF	RST CHIPR 20K OHM +-5% 1/10W FENGHUA	
R607	061G0603203 JF	RST CHIPR 20K OHM +-5% 1/10W FENGHUA	
R916	061G0603471 JT	RST CHIPR 470OHM +-5% 1/10W TZAI YUAN	
R615	061G0603472 JF	RST CHIPR 4.7KOHM +-5% 1/10W FENGHUA	
R611	061G0603563 JF	RST CHIPR 56KOHM 5% 1/10W FENGHUA	
R612	061G0603751 JF	RST CHIPR 750OHM +- 5% 1/10W FENGHUA	
R915	061G06039311FT	RST CHIPR 9.31k 1% 1/10W	
R608	061G0805000 JF	RST CHIPR 0 OHM +-5% 1/8W FENGHUA	
R923	061G0805103 JT	RST CHIPR 10K OHM +- 5% 1/8W TZAI YUAN	
R903	061G08051102FT	RST CHIP 11K 1/8W 1%	
R924	061G0805689 JT	RST CHIPR 6.8R +-5% 1/8W TZAI YUAN	
R925	061G08058202FT	RST CHIPR 82K +-1% 1/8W TZAI YUAN	
RJ601	061G1206000 JT	RST CHIPR MAX0R05 1/4W TZAI YUAN	
F601	061G12060004JT	RST CHIP MAX 0R05 1/4W TZAI YUAN	
R927	061G12060004JT	RST CHIP MAX 0R05 1/4W TZAI YUAN	
R910	061G1206101 JT	RST CHIPR 100 OHM +-5% 1/4W TZAI YUAN	
R926	061G1206229 JT	RST CHIPR 2R2 +-5% 1/4W TZAI YUAN	
R909	061G1206300 JT	RST CHIPR 30 OHM 1/4W TZAI YUAN	
R908	061G1206300 JT	RST CHIPR 30 OHM 1/4W TZAI YUAN	
R907	061G1206300 JT	RST CHIPR 30 OHM 1/4W TZAI YUAN	
R906	061G1206300 JT	RST CHIPR 30 OHM 1/4W TZAI YUAN	
R905	061G1206300 JT	RST CHIPR 30 OHM 1/4W TZAI YUAN	
R904	061G1206300 JT	RST CHIPR 30 OHM 1/4W TZAI YUAN	
R920	061G1206335 JT	RST CHIPR 3.3 MOHM +-5% 1/4W TZAI YUAN	
R921	061G1206335 JT	RST CHIPR 3.3 MOHM +-5% 1/4W TZAI YUAN	

R922	061G1206335 JT	RST CHIPR 3.3 MOHM +-5% 1/4W TZAI YUAN	
R900	061G1206624 JT	RST CHIPR 620 KOHM +-5% 1/4W TZAI YUAN	
R901	061G1206624 JT	RST CHIPR 620 KOHM +-5% 1/4W TZAI YUAN	
R902	061G1206624 JT	RST CHIPR 620 KOHM +-5% 1/4W TZAI YUAN	
C611	065G060310131J F	CAP CHIP 0603 100PF J 50V NPO	
C610	065G060310131J F	CAP CHIP 0603 100PF J 50V NPO	
C916	065G060310312K F	CAP CHIP 0603 10NF K 16V X7R	
C603	065G060310432K F	CAP CHIP 0603 0.1UF K 50V X7R	
C614	065G060310432K F	CAP CHIP 0603 0.1UF K 50V X7R	
C601	065G060347412K T	CAP CHIP 0603 0.47UF K 16V X7R	
C606	065G060347412K T	CAP CHIP 0603 0.47UF K 16V X7R	
C905	065G080510432K F	CAP CHIP 0805 0.1UF K 50V X7R	
C915	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C917	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C609	065G080510522K T	CAP CHIP 0805 1UF K 25V X7R	
C608	065G080522522K T	CAP CHIP 0805 2.2UF K 25V X7R	
C901	065G080582031J F	CAP CHIP 0805 82PF J 50V NPO	
C910	065G1206222B2K T	CAP CHIP 1206 2200PF K 630V X7R	
C911	065G1206222B2K T	CAP CHIP 1206 2200PF K 630V X7R	
C919	065G1206222B2K T	CAP CHIP 1206 2200PF K 630V X7R	
C920	065G1206222B2K T	CAP CHIP 1206 2200PF K 630V X7R	
	AD91503HD1AI	ADAPTER BOARD FOR AI	
C410	067G 2151007RT	LOW E.S.R 10UF +/-20% 50V	
C423	067G 305101 4T	100UF +-20% 25V	
C421	067G 305101 4T	100UF +-20% 25V	
C427	067G 305101 4T	100UF +-20% 25V	
C426	067G 305101 4T	100UF +-20% 25V	
U401	056G 562557	IC TSUM1PFR-LF	
U404	056G 563 52	IC AP1117D33G-13 TO252-3L DIODES	
U102	056G 662502	IC ESD AZC199-04S SOT23-6L	
U103	056G 662502	IC ESD AZC199-04S SOT23-6L	
U405	056G1133 34	M24C02-WMN6TP	
U402	056G1133137	IC MX25L2026MI-12G SOP-8	
Q404	057G 417 6	PMBS3906/PHILIPS-SMT(06)	
Q409	057G 417 22 T	TRA KN2907AS -60V/-0.6A SOT-23	
Q410	057G 417 22 T	TRA KN2907AS -60V/-0.6A SOT-23	
Q402	057G 417517	Tra LMBT3906LT1G -200mA/-40V SOT-23 LRC	
Q403	057G 417517	Tra LMBT3906LT1G -200mA/-40V SOT-23 LRC	
Q406	057G 417518	TRA LMBT3904LT1G 200mA/40V SOT-23 LRC	
Q407	057G 417518	TRA LMBT3904LT1G 200mA/40V SOT-23 LRC	
Q408	057G 417518	TRA LMBT3904LT1G 200mA/40V SOT-23 LRC	
Q405	057G 763 1	A03401 SOT23 BY AOS(A1)	
R485	061G0402000	RST CHIP MAX 0R05 1/16W	
R483	061G0402000	RST CHIP MAX 0R05 1/16W	
R482	061G0402000	RST CHIP MAX 0R05 1/16W	
R471	061G0402000	RST CHIP MAX 0R05 1/16W	
R457	061G0402000	RST CHIP MAX 0R05 1/16W	
R456	061G0402000	RST CHIP MAX 0R05 1/16W	
R402	061G0402000	RST CHIP MAX 0R05 1/16W	
R401	061G0402000	RST CHIP MAX 0R05 1/16W	
R419	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	

R418	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R442	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R413	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R412	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R411	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R405	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R117	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R102	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R103	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R104	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R108	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R111	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R114	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R115	061G0402101	RST CHIPR 100 OHM +-5% 1/16W	
R410	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W	
R441	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W	
R469	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W	
R447	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R439	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R437	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R433	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R417	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R414	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R408	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R407	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R118	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W	
R436	061G0402104	RST CHIPR 100 KOHM +-5% 1/16W	
R468	061G0402201	RST CHIP 200R 1/16W 5%	
R105	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W	
R106	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W	
R466	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W	
R109	061G0402390 0F	RST CHIP 390R 1/16W 1%	
R403	061G0402390 0F	RST CHIP 390R 1/16W 1%	
R428	061G0402392	RST CHIP 3.9K 1/16W 5%	
R427	061G0402392	RST CHIP 3.9K 1/16W 5%	
R475	061G0402470	RST CHIPR 47 OHM +-5% 1/16W	
R476	061G0402470	RST CHIPR 47 OHM +-5% 1/16W	
R123	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R435	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R440	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R472	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R473	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R474	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R448	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W	
R116	061G0402750	RST CHIPR 75 OHM +-5% 1/16W	
R112	061G0402750	RST CHIPR 75 OHM +-5% 1/16W	
R107	061G0402750	RST CHIPR 75 OHM +-5% 1/16W	
R101	061G0603000	RST CHIP MAX 0R05 1/10W	
R467	061G0603000	RST CHIP MAX 0R05 1/10W	
R470	061G0603000	RST CHIP MAX 0R05 1/10W	
R434	061G1206331	RST CHIPR 330 OHM +-5% 1/4W	

D402	061G2010000	RST CHIP MAX 0 OHM 3/4W	
C432	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C428	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C422	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C420	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C419	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C416	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C407	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C406	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C404	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C403	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C401	065G040210412K A	CAP CHIP 0402 100nF K 16V X7R	
C433	065G0402105 A5	CAP 0402 1UF K 10V X5R	
C103	065G0402220 31	CHIP 22PF 50V NPO	
C102	065G0402220 31	CHIP 22PF 50V NPO	
C408	065G0402224 17	CAP CER 0.22UF -20%-80%	
C434	065G0402224 17	CAP CER 0.22UF -20%-80%	
C411	065G0402470 31	MLCC 0402 CAP 47PF J 50V NPO	
C412	065G0402470 31	MLCC 0402 CAP 47PF J 50V NPO	
C113	065G0402473 12	CHIP 0.047uF 16V X7R	
C110	065G0402473 12	CHIP 0.047uF 16V X7R	
C109	065G0402473 12	CHIP 0.047uF 16V X7R	
C107	065G0402473 12	CHIP 0.047uF 16V X7R	
C106	065G0402473 12	CHIP 0.047uF 16V X7R	
C105	065G0402473 12	CHIP 0.047uF 16V X7R	
C101	065G0402473 12	CHIP 0.047uF 16V X7R	
C104	065G0402509 31	CHIP 5pF 50V NPO	
C108	065G0402509 31	CHIP 5pF 50V NPO	
C111	065G0402509 31	CHIP 5pF 50V NPO	
FB405	071G 56G151 A	TB160808G151	
FB402	071G 56K121 M	CHIP BEAD	
FB401	071G 56V301 B	CHIP BEAD FCM2012VF-301T07 bullwill	
FB101	071G 59K190 B	19 OHM BEAD	
FB102	071G 59K190 B	19 OHM BEAD	
FB103	071G 59K190 B	19 OHM BEAD	
D403	093G 64 42 L	DIODE LBAV70LT1G SOT-23 LRC	
ZD103	093G 39GA01 T	RLZ5.6B	
ZD104	093G 39GA01 T	RLZ5.6B	
	715G3244 1	MAIN BOARD PCB	
CN001	033G8034 6H H X	WAFER 1.0mm SMT 6P	
U001	056G 665 43	IC CY8C20180-LDX2I QFN-16(COL)	
R012	061G0603000	RST CHIP MAX 0R05 1/10W	
R009	061G0603000	RST CHIP MAX 0R05 1/10W	
R008	061G0603000	RST CHIP MAX 0R05 1/10W	
R001	061G0603000	RST CHIP MAX 0R05 1/10W	
R002	061G0603101	RST CHIPR 100 OHM +-5% 1/10W	
R005	061G0603561	RST CHIPR 560 OHM +-5% 1/10W	
R006	061G0603561	RST CHIPR 560 OHM +-5% 1/10W	
R007	061G0603561	RST CHIPR 560 OHM +-5% 1/10W	
R004	061G0603561	RST CHIPR 560 OHM +-5% 1/10W	
C001	065G0603102 31	CHIP 1000PF 50V NPO	

C002	065G0603225 A5	CHIP 2.2uF 10V X5R	
LED001	081G15BY 2 GP	LED GPTD1204BOC1-A GP	
ZD004	093G 39S 34 T	UDZSNP5.6B ROHM	
ZD005	093G 39S 34 T	UDZSNP5.6B ROHM	
	715G3371 2	KEY BOARD PCB	
CN803	033G8021 2T U	CONNECTOR	
CN802	033G8021 2T U	CONNECTOR	
CN801	033G803210F HR	CONNECTOR	
U801	056G 379153	IC OZ9954SN SSOP-20	
Q804	057G 41717B T	tra PZT2907A PHILIPS	
Q803	057G 41717B T	tra PZT2907A PHILIPS	
Q801	057G 759 2	RK7002FD5T116 SOT-23 BY ROHM	
Q802	057G 763 6	AO4828 SOIC-8 BY AOS	
R810	061G0603000 JT	RST CHIP MAX 0R05 1/10W TZAI YUAN	
R811	061G0603100 JT	RST CHIP 10R 1/10W 5% TZAI YUAN	
R805	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R806	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R807	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R808	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R809	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R801	061G0603103 JT	RST CHIP 10K 1/10W 5% TZAI YUAN	
R804	061G0603104 JT	RST CHIP 100K 1/10W 5% TZAI YUAN	
R802	061G0603104 JT	RST CHIP 100K 1/10W 5% TZAI YUAN	
R819	061G0603124 JT	RST CHIP 120K 1/10W 5% TZAI YUAN	
R815	061G0603229 JT	RST CHIPR 2.2OHM 1/10W TZAI YUAN	
R817	061G0603229 JT	RST CHIPR 2.2OHM 1/10W TZAI YUAN	
R816	061G06035108FT	bST CHIPR 0603 5.1 OHM +-1% 1/10W	
R818	061G06035108FT	bST CHIPR 0603 5.1 OHM +-1% 1/10W	
R803	061G0805100 JT	RST CHIP 10R 1/8W 5% TZAI YUAN	
R812	061G0805101 JT	RST CHIP 100R 1/8W 5% TZAI YUAN	
R813	061G0805512 JT	RST CHIPR 5K1 +-5% 1/8W TZAI YUAN	
R814	061G0805512 JT	RST CHIPR 5K1 +-5% 1/8W TZAI YUAN	
R820	061G1206000 JT	RST CHIPR MAX0R05 1/4W TZAI YUAN	
F801	061G12060004JT	RST CHIP MAX 0R05 1/4W TZAI YUAN	
C810	065G060310131J A	CAP CHIP 0603 100PF J 50V NPO SAMSUNG	
C808	065G060310131J A	CAP CHIP 0603 100PF J 50V NPO SAMSUNG	
C803	065G060310232K Y	CAP CHIP 0603 1N 50V X7R +/-10%	
C809	065G080510322K F	CAP CHIP 0805 10NF K 25V X7R	
C806	065G080510322K F	CAP CHIP 0805 10NF K 25V X7R	
C804	065G080510322K F	CAP CHIP 0805 10NF K 25V X7R	
C812	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C801	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	
C805	065G080510522K 3	CAP CHIP 0805 1U 25V X7R +/-10%	
C811	065G080522131J F	CAP CHIP 0805 220PF J 50V NPO	
C807	065G080522512K 3	CAP CHIP 0805 2U2 16V X7R +/-10%	
L801	073G253S 80 H	SMD CHOKE 22uH 2.16A SPI103LRR-220	
ZD801	093G 60S 31 T	DIODE B360B 3A/60V SMB	
	715G3649P01000004S	POWER BOARD PCB	
C503	065G0603104 12	CER2 0603 X7R 16V 100N P	
C501	065G0603509 31	CHIP 5PF +-0.5PF 50V NPO	
C502	065G0603509 31	CHIP 5PF +-0.5PF 50V NPO	

FB501	071G 56K121 M	CHIP BEAD	
	715G3501 2	USB BOARD PCB	
CN901	006G 31500	EYELET	
IC903	056G 158 10 T	IC AS431AZTR-E1 TO-92	
Q901	057G 530503 T	2SD1207T	
R919	061G152M10452T SY	RST MOFR 100KOHM +-5% 2WS FUTABA	
R918	061G152M25152T SY	RST MOFR 250 OHM +-5% 2WS	
C906	065G 2K152 2T6921	CAP CER 1500pF K 2KV Y5P	
C913	067G 2046812KT	CS CAP 680uF 10V 8*11 mm	
C908	067G 2154707NT	KY50VB47M-TP5 6.3*11	
C604	067G215Y1014KT	EC CAP.105 度	
C613	067G215Y1014KT	EC CAP.105 度	
FB902	071G 55 9 T	FERRITE BEAD	
FB603	071G 55 29	FERRITE BEAD	
FB602	071G 55 29	FERRITE BEAD	
F901	084G 55 5	FUSE 2.50A 250V	
F902	084G 56 4W	FUSE 4.0A 250V	
ZD902	093G 3916752T	MTZJ T-72 16B	
ZD901	093G 39A0852T	GDZJ18B	
D902	093G 6026T52T	RECTIFIER DIODE FR107	
D901	093G 6038T52T	FR103	
D601	093G 64 1152T	1N4148	
J611	095G 90 23	JUMPER WIRE	
J612	095G 90 23	JUMPER WIRE	
J610	095G 90 23	JUMPER WIRE	
J606	095G 90 23	JUMPER WIRE	
J607	095G 90 23	JUMPER WIRE	
J604	095G 90 23	JUMPER WIRE	
J603	095G 90 23	JUMPER WIRE	
J602	095G 90 23	JUMPER WIRE	
J614	095G 90 23	JUMPER WIRE	
J906	095G 90 23	JUMPER WIRE	
J600	095G 90 23	JUMPER WIRE	
J905	095G 90 23	JUMPER WIRE	
J902	095G 90 23	JUMPER WIRE	
J901	095G 90 23	JUMPER WIRE	
J900	095G 90 23	JUMPER WIRE	
J617	095G 90 23	JUMPER WIRE	
J616	095G 90 23	JUMPER WIRE	
J615	095G 90 23	JUMPER WIRE	
J609	095G 90 23	JUMPER WIRE	
J608	095G 90 23	JUMPER WIRE	
J601	095G 90 23	JUMPER WIRE	
J903	095G 90 23	JUMPER WIRE	
J904	095G 90 23	JUMPER WIRE	
	715G3189P01LED001S	POWER BOARD PCB	